

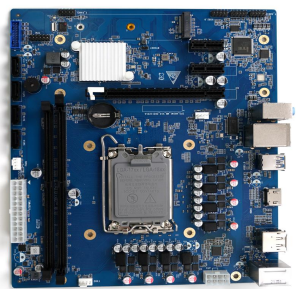


Desktop Product Roadmap

2022Q3
v1.1

Product Series

Micro ATX



≤244*244*44mm

intel AMD 兆芯



Mini Desktop

ATX



≤305*244*44mm

兆芯



Desktop

01 Desktop Motherboard Roadmap

MP

Deveoping

Planning

intel

Micro
ATX**H51M3**
MP on 2022,Q3RKL-S 65W (Up to i7)
H510 Chipset
2*DDR4 UDIMM**H61M1**
MP on 2022,Q3ADL-S 65W (Up to i7)
H610 Chipset
2*DDR4 UDIMM**RPL-S on H61M1**
MP on 2022,Q4RPL-S 65W
H610 Chipset
2*DDR4 UDIMM**TGHM1**
MP on 2022,Q3TGL-H45
HM570 chipset
2* DDR4 UDIMM

AMD

ATD1
MPAMD AM4
X300/A300
65W
2*DDR4 UDIMM**A52M2**
Ryzen2000/3000/
4000/5000Series
MP on 2022,Q3AM4 65W
A520 chipset
2*DDR4 UDIMM

MP on 2022,Q4

AM5 CPU Support

ZED1
MP on 2020KX-6000
70W
2*DDR4 UDIMM**ZED3**
MP on 2020KX-6000
25W/70W
4*DDR4 SODIMM

兆芯

ATX

2022Q2

2022Q3

2022Q4

2023Q1

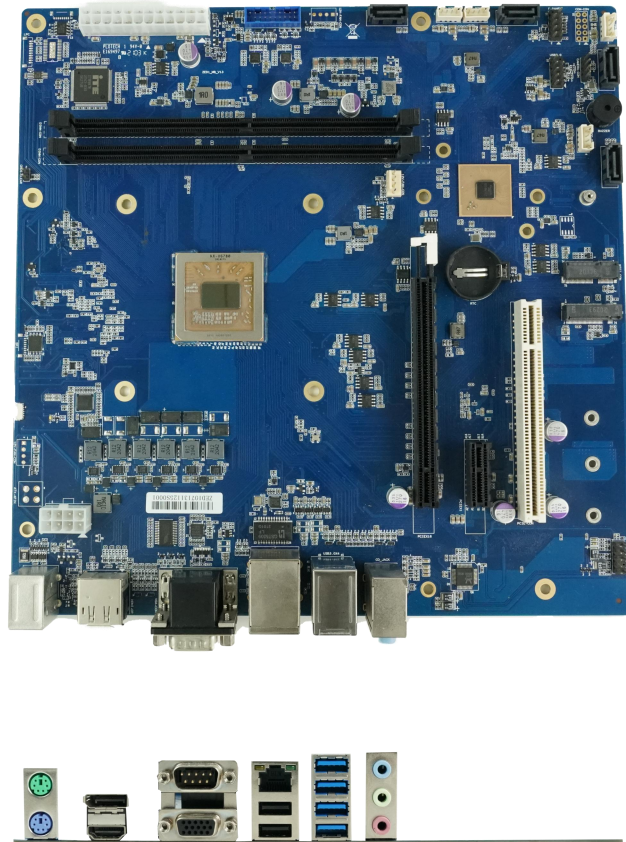
2023Q2

02 Standard MB Catalog

Micro ATX

ZED1

MP



244*244mm

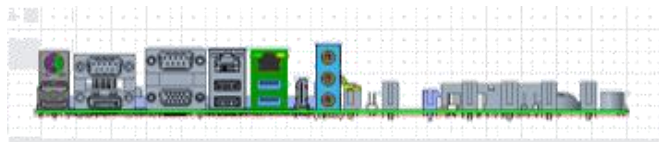
Specification

CPU	Zhaoxin KX-6000	
Memory	2*DDR4 U-DIMM, Up to 32G	
WiFi	M.2 2230 PCIe (Wifi+BT)	
Power	ATX Power	
OS	Windows/UOS/中标麒麟/中科方德	
	Internal I/O	Rear I/O
Voice	1*Audio	1*Audio (立式3孔)
USB	3*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 4*USB3.2 Gen1
Display	/	1*DP + 1*VGA + 1*HDMI 1.4
LAN	/	1*RJ45(GLAN)
Power	1*ATX Power + 1*ATX DC_IN	/
Storage	4*SATA	/
FAN	3*CPU FAN	/
Others	/	1*COM + 2*PS/2
Expasion	1*PCI + 1*PCIe×1 + 1*PCIe×16 1*M.2 2240/2260/2280 PCIe&SATA (SSD)	

ATX

ZED3

MP



305*244mm

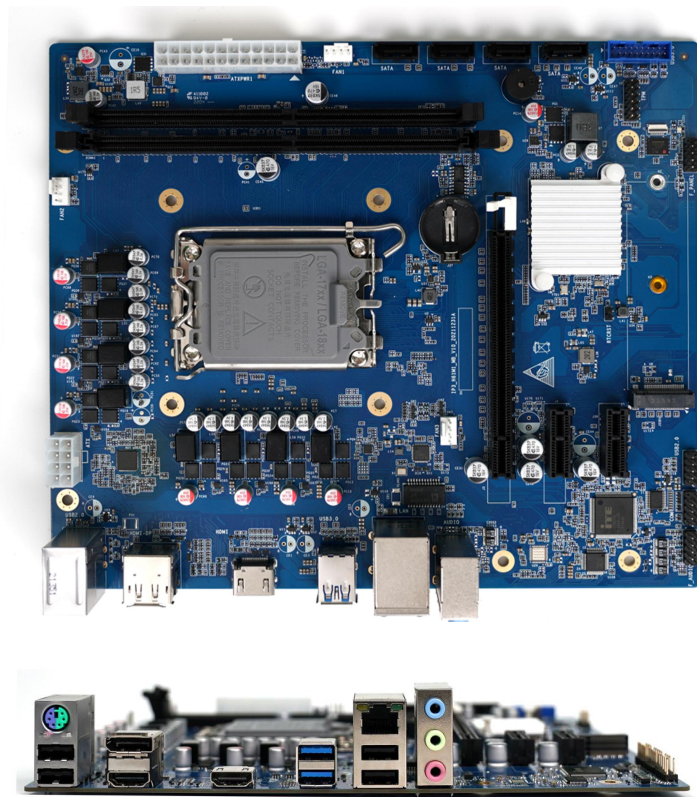
Specification

CPU	Zhaoxin KX-6000	
Memory	4*DDR4 U-DIMM, Up to 64G	
Power	ATX Power	
OS	Windows/UOS/中标麒麟/中科方德	
	Internal I/O	Rear I/O
Voice	1*Audio	1*Audio (立式3孔)
USB	/	4*USB2.0 + 2*USB3.2 Gen1
Display	/	1*DP + 1*VGA + 1*HDMI
LAN	/	2*RJ45 (GLAN)
Power	1*ATX Power + 1*ATX DC_IN	/
Storage	2*SATA	/
FAN	1*FAN	/
F_Panel	1*F_Panel	/
Others	1*GPIO + 1*COMS + 1*Jumper	2*COM + 2*PS/2
Expasion	1*PCIe×4 + 1*PCIe×8(×16Slot)	

Micro ATX

H61M1

Developing



236×202mm

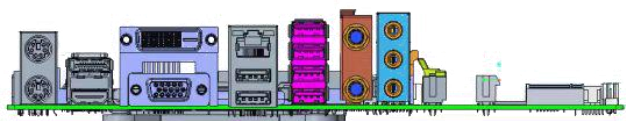
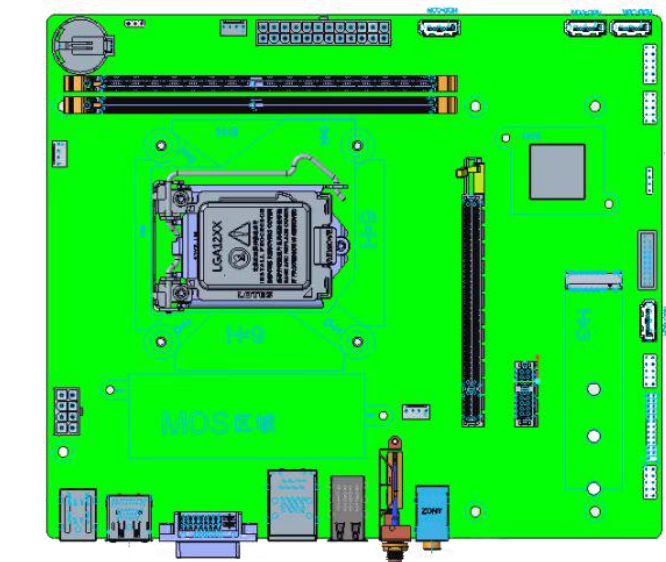
Specification

CPU	Intel Alder Lake-S	
Chipset	H610/Q670/B660	
Memory	2*DDR4 U-DIMM, 3200MHz, Up to 64G	
WiFi	NA	
Power	ATX Power	
OS	Windows11(64bit), Linux	
	Internal I/O	Rear I/O
Voice	1*Front_Audio	1*LINE_OUT+LINE_IN+MIC_IN
USB	3*USB2.0 + 2*USB3.2 Gen1	2*USB3.2 Gen1 + 4*USB2.0
Display	1*LVDS + 1*eDP + 1*VGA	2*HDMI 1.4 + 1*DP
Power	4*SATA Power+ (24+8)ATX Power	/
LAN	/	1*RJ45 (GLAN)
Storage	4*SATA	/
FAN	1*CPU/System FAN	/
Others	1*F_Panel	1*PS2 (2in1)
Expasion	1*M.2 2242/2280 PCIe4.0×4 (SSD)	
	1*PCIe×16 + 2*PCIe×1	

Micro ATX

H51M3

Developing



235*200mm

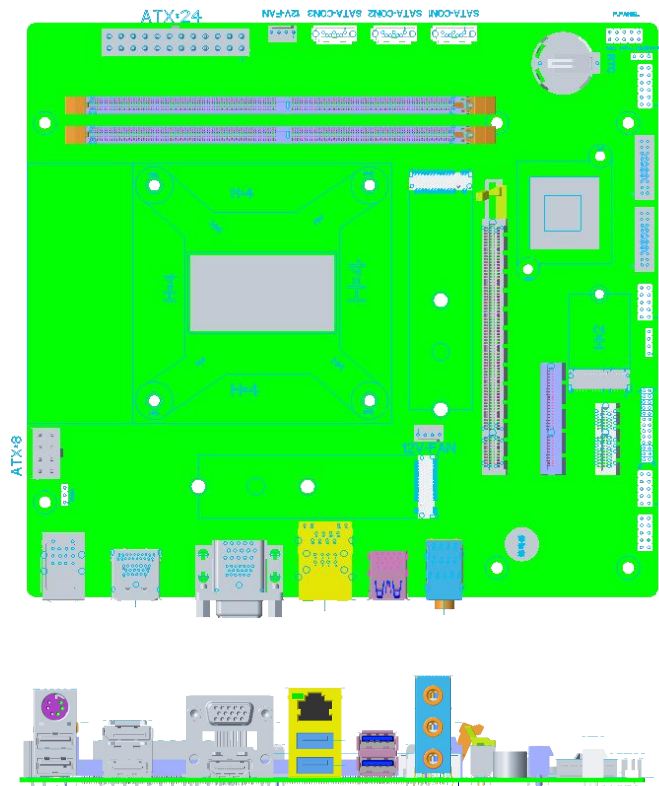
Specification

CPU	Intel Alder Lake-P	
Memory	2*DDR4 SO-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB2.0	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Audio Combo
USB	2*USB2.0	2*USB2.0 + 2*USB3.2 Gen1
Display	1*LVDS + 1*eDP + 1*VGA	1*HDMI 1.4
Power	1*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	1*SATA + 1*UFS2.1	/
FAN	1*CPU/System FAN	/
Others	1*F_Panel	/
Expasion	1*M.2 2280 PCIe4.0×4 (SSD)	

Micro ATX

TGHM1

Developing



244*244mm

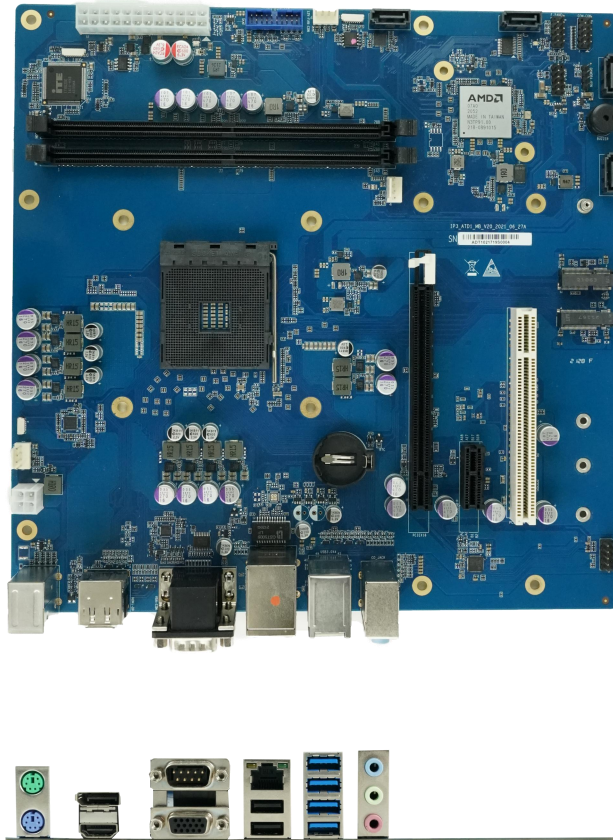
Specification

CPU	Intel Tiger Lake-H45	
Chipset	HM570	
Memory	2*DDR4 U-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB2.0	
Power	ATX Power	
OS	Windows11 (64bit)	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*LINE_OUT+LINE_IN+MIC_IN
USB	4*USB2.0 + 4*USB3.2Gen1	4*USB2.0 + 2*USB3.2 Gen1
Display	1*LVDS + 1*eDP + 1*DP	1*HDMI 1.4 + 1*VGA + 1*DP + 1*DVI-D
Power	3*SATA Power+(8+24)ATX Power	/
LAN	/	1*RJ45 (GLAN)
Storage	3*SATA	/
FAN	1*CPU + 1*System FAN	/
Others	1*COM + 1*LPT+ 1*Case Open Detection	1*PS2(2in1)
Expasion	2*M.2 2242/2280 PCIe×4+SATA	
	1*PCIe×16 + 1*PCIe×4 + 1*PCIe×1	

Micro ATX

ATD1

MP



244*244mm

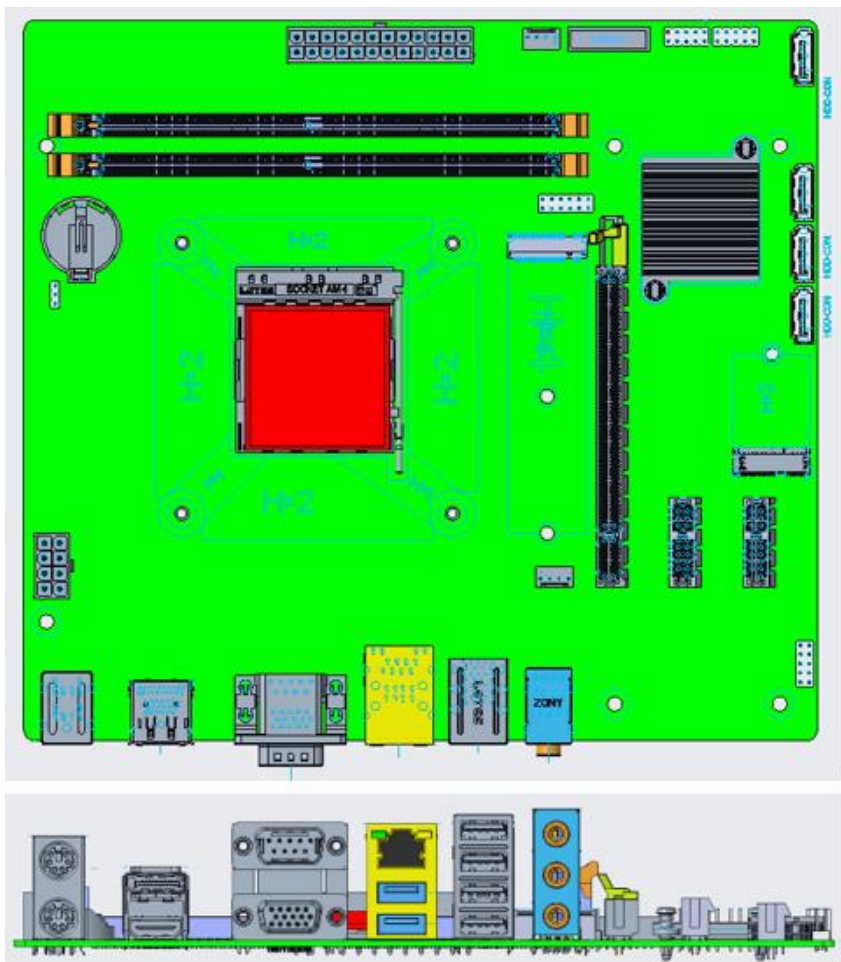
Specification

CPU	AMD AM4, Ryzen 2000, 3000, 4000, 5000 G-Series APU	
Chipset	B550	
Memory	2*DDR4 U-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe (Wifi+BT)	
Power	ATX Power	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio	1*Audio (立式3孔)
USB	3*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 4*USB3.2 Gen1
Display	/	1*DP + 1*VGA + 1*HDMI 1.4
LAN	/	1*RJ45(GLAN)
Power	1*(24+4)ATX Power	/
Storage	4*SATA	/
FAN	3*CPU FAN	/
Others	/	1*COM + 2*PS/2
Expasion	1*PCI + 1*PCIe×1 + 1*PCIe×16	
	1*M.2 2240/2260/2280 PCIe&SATA (SSD)	

Micro ATX

A52M2

Developing



220*200mm

Specification

CPU	AMD AM4, Ryzen 2000, 3000, 4000, 5000 G-Series APU	
Chipset	A520/B550	
Memory	2*DDR4 U-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB (Wifi+BT)	
Power	ATX Power	
OS	Windows, Linux	
	Internal I/O	Rear I/O
Voice	1*Audio	1*Audio (立式3孔)
USB	2*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 4*USB3.2 Gen1
Display	/	1*DP + 1*VGA + 1*HDMI 1.4
LAN	/	1*RJ45(GLAN)
Power	1*(24+8)ATX Power	/
Storage	4*SATA	/
FAN	1*CPU FAN + 1*System FAN	/
Others	1*Open Chassis Detection	1*COM + 1*PS/2
Expasion	2*PCIe×1 + 1*PCIe×16	
	1*M.2 2240/2260/2280 PCIe4.0×4&SATA (SSD)	

03 Tooling Catalog

1 Mini Desktop Catalog — Micro ATX



340*92*340mm
SGCC 1.45Kg



340*92*340mm
SGCC 1.5Kg



295*92*340mm
SPCC+ABS 3.5Kg



346*93*340mm
SPCC+ARS 3.5Kg



389*102*338mm
SGCC 5.2Kg



307*175*353mm
SPCC+ARS 1.8Kg



365*144*400mm
SPCC+ARS 1.9Kg



354*190*304mm
SPCC+ARS 2.5Kg

Micro ATX

ID1



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SGCC
Weight	1.45KG
Dimension	340*92*340mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	1*USB2.0+1*USB3.2 Gen1
	1*Power Button

Micro ATX

ID2



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SGCC
Weight	1.5KG
Dimension	340*92*340mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	1*USB2.0+1*USB3.2 Gen1
	1*Power Button

Micro ATX

ID3



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 1*2.5inch HDD 1*3.5inch HDD 1*ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ABS
Weight	3.5KG
Dimension	295*92*340mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	2*USB2.0+1*USB3.2 Gen1
	1*Power Button

Micro ATX

ID4



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ARS
Weight	3.5KG
Dimension	346*93*340mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	2*USB2.0+2*USB3.2 Gen1
	1*Power Button

Micro ATX

ID5



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ARS
Weight	3.5KG
Dimension	389*102*338mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	2*USB2.0+2*USB3.2 Gen1
	1*Power Button

Micro ATX

ID6



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ARS
Weight	1.8KG
Dimension	307*175*353mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	1*USB2.0+1*USB3.2 Gen1
	1*Power Button

Micro ATX

ID7



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 2*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ARS
Weight	1.9KG
Dimension	365*144*400mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	1*USB2.0+1*USB3.2 Gen1
	1*Power Button

Micro ATX

ID8



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ARS
Weight	2.5KG
Dimension	354*190*304mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	1*USB2.0+1*USB3.2 Gen1
	1*Power Button

ATX

ZED3-D-XXS



Calm appearance
Powerful support for extensibility
Support 4 HDDs
Support full-height discrete graphics card
Suitable for office business

Specification

Motherboard	ATX (ZED3)
CPU	Zhaoxin KX-6000, Up to 70W
Memory	4*DDR4 U-DIMM, Up to 64G
Storage	2*3.2inch HDD 1*ODD
Expansion Slot	4*PCIe Slot
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Rear I/O	1*Audio (立式3孔)
	4*USB2.0 + 2*USB3.2 Gen1
	1*DP + 1*VGA + 1*HDMI
	2*RJ45 (GLAN)
	2*COM
	2*PS/2
Front I/O	4*USB Type-A
	1*Head Phone + 1*MIC
	1*ODD
	1*Power Button

ATX

ZED3-R-BG



Standard 4U
Security door with lock
Equipped with LED indicator light alarm prompt

Specification

Motherboard	ATX (ZED3)
CPU	Zhaoxin KX-6000, Up to 70W
Memory	4*DDR4 U-DIMM, Up to 64G
Storage	2*2.5inch HDD 2*3.5inch HDD
Expasion Slot	7*PCIe Slot
Dimension	427*450*176mm
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Rear I/O	1*Audio (立式3孔)
	4*USB2.0 + 2*USB3.2 Gen1
	1*DP + 1*VGA +1*HDMI
	2*RJ45 (GLAN)
	2*COM
	2*PS/2



INTEL & AMD SEVER PRODUCT

2022 Q3
V1.0

iP3 Sever Naming Rules

X S (X) X X (VX) - X

Processor platform

X - Intel Xeon
E - AMD EPYC
Z - Zhaoxin ZX
F - PHYTIUM

Form Factor

S - Sever

Positioning

NA - Common
A - AI
S - Storage
G - GPU

Number of processor

1 - 1 socket
2 - 2 sockets
4 - 4 sockets

Height

1 - 1U
2 - 2U
4-4U

Version upgrade

NA - Version 1
V2 - Version 2
V3 - Version 3

Special Code

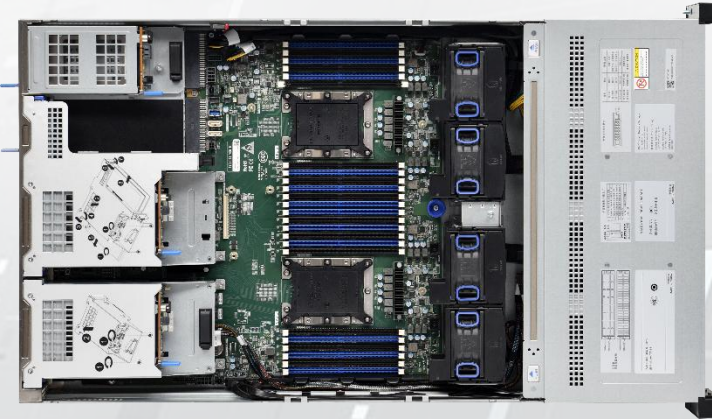
for example : XS21 : Intel Xeon 2 sockets 1U common sever

IP3 Server Product

		2S	4S
Intel	Sky Lake-SP Cascade Lake-SP Cascade Lake-SP Refresh	XS21 XS22	XS42 XS44
	Ice Lake	XS21V2 XS22V2	
AMD	Rome/Milan	ES22-T	

Intel Rack Server

XS21 & XS22 ——2S rack high-end flagship server



- Support 9TB memory
- Support 31 2.5inch hot-swappable HDDs
- Support 2 raid cards, and required no PCIE slots
- Support 2 full height full length & double width GPU cards

Product Positioning

Large-capacity memory, large-capacity high-speed storage, mainstream computing solutions with various functional expansion requirements, suitable for critical applications with high standard requirements for computing, storage, and communication.

Target Industry

Education, government, business, military and financial industries.

XS21 & XS22 — Features

XS21 & XS22 are designed with a total of five models; **modular components, rich models excellent expansion capabilities, covering most of the market needs;**

- Abundant pre-storage modules, which can provide different storage configuration solutions according to the user's application requirements, built-in 1 M.2 PCI-E X4 interface and 2 SATA DOMs, which can be used for OS installation or acceleration;
- Two 2.5-inch hard disk bays at the rear can be used to install OS, and **HYPER BAY** can be selected according to your needs, and the **additional four 3.5"/2.5" hard disk bays** can be added to increase local storage space;
- A variety of Raiser cards and backplane options, in addition to ordinary SAS/SATA models, there are also **more NVMe models** to choose from;

Front view



Rear view





Function	XS21	Function	XS22
Processor	1or2 Intel Xeon scalable processors (Skylake-SP & Cascade Lake-SP & Cascade Lake-SP Refresh) , TDP up to 205W	Processor	1 or 2 Intel Xeon scalable processors (Skylake-SP & Cascade Lake-SP & Cascade Lake-SP Refresh) , TDP up to 205W
Chipset	Intel® PCH C621	Chipset	Intel® PCH C621
Memory	Up to 24 DIMM slots, 12 channels	Memory	Up to 24 DIMM slots, 12 channels
Memory Type	DDR4 1866/2133/2400/2666/2933MHz ECC RDIMMs/LRDIMMs/AEP DIMM	Memory Type	DDR4 1866/2133/2400/2666/2933MHz ECC RDIMMs/LRDIMMs/AEP DIMM
Memory Capacity	Each capacity is 8GB, 16GB, 32GB, 64GB, 128GB, Up to 9.0TB	Memory Capacity	Each capacity is 8GB, 16GB, 32GB, 64GB, 128GB, Up to 9.0TB
Storage Controller	6Gb/s SATA; 12Gb/s SAS HBA and 12Gb/s SAS RAID are optional	Storage Controller	6Gb/s SATA; 12Gb/s SAS HBA and 12Gb/s SAS RAID are optional
Storage	Up to 10 2.5inch HDDs, support hot-swap Or up to 4 3.5inch HDDs, support hot-swap Or up to 10 2.5inch NVMe SSDs, support hot-swap	Storage	Up to 16 3.5inch & 2 2.5inch HDDs, support hot-swap Or up to 31 2.5inch HDDs, support hot-swap Or up to 16 2.5inch NVMe SSDs, support hot-swap
PCI-E Expansion Slot	Support 2 PCIe3.0 standard expansion slots, 2 dedicated PCIe 3.0 OCP2.0	PCI-E Expansion Slot	Up to 8 PCI Express 3.0 expansion slots, 2 dedicatedPCIe 3.0 OCP2.0
GPU	Up to 2 half-length&single-width GPUs	GPU	Up to 4 full-length&single-width GPUs or 2 full-length&dual-width GPUs
LAN	2 integrated 1GbE , 2×1GbE/4×1GbE/2×10GbE/4×10GbE/2×25GbE/2×40GbE network daughter cards for option	LAN	2 integrated 1GbE, 2×1GbE/4×1GbE/2×10GbE/4×10GbE/2×25GbE/2×40GbE network daughter cards for option
Management	Data center management platform realizes remote multi-function advanced management, optional LCD management module	Management	Data center management platform realizes remote multi-function advanced management, optional LCD management module
Security	TPM/TCM is optional	Security	TPM/TCM is optional
Power	1 or 2 power modules, support 1+1 redundancy, support hot-swap 220v AC/240v DC/336v DC/-48v DC input option 550W/800W/1300W/1600W power option	Power	1 or 2 power modules, support 1+1 redundancy, support hot-swap 220v AC/240v DC/336v DC/-48v DC input option 550W/800W/1300W/1600W power option
Interface	Front: 1 D-Sub VGA, 2 USB3.0 ³ , 1 LCD Mini USB Rear: 1 D-Sub VGA, 2 USB3.0, 1 RJ45 for BMC, 2 RJ45 for enternet	Port	Front: 1 D-Sub VGA, 2 USB3.0, 1 LCD Mini USB Rear: 1 D-Sub VGA, 2 USB3.0, 1 RJ45 for BMC, 2 RJ45 for enternet
Dimension	1U rack server, W436mm × H43.6mm × D808mm (788mm without hangers)	Dimension	2U rack server, W447mm × H87mm × D808mm (788mm without hangers)
Weight	The net weight of the full configuration is about 19KG, and the full configuration including accessories and packaging is about 28KG	Weight	The net weight of the full configuration is about 32KG, and the full configuration including accessories and packaging is about 40KG
Operating Temperature	0°C - 45°C	Operating Temperature	0°C - 45°C
Operating Relative Humidity	0% - 90%	Operating Relative Humidity	0% - 90%

XS21V2 & XS22V2 — Features

Five **conventional models** of XS21V2 & XS22V2; modular components, rich models, excellent expansion capability, covering most market demands;

- Abundant pre-storage modules, which can provide different storage configuration solutions according to the user's application requirements, built-in 2 M.2 PCI-E interface and 2 SATA DOMs, which can be used for OS installation or acceleration;
- Four 2.5" hard disk bays at the rear can be used to install OS, and **HYPER BAY** can be selected according to your needs, and the additional four 3.5"/2.5" hard disk bays can be added to increase local storage space;
- A variety of Raiser cards and backplane options, in addition to ordinary SAS/SATA models, there are also more NVMe models to choose from;

1U4-3.5



1U10-2.5



2U8-3.5



2U12-3.5

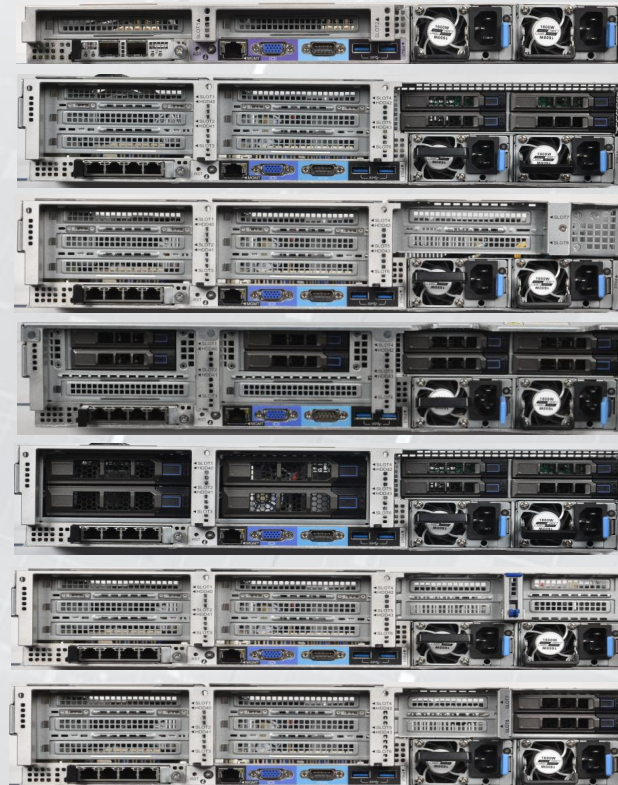


2U8/2U16/2U24/2U25-2.5



Front view

Rear view



1U, 2PCIE

2U, 6PCIE, 4*2.5 HDD

2U, 8PCIE,

2U, 2PCIE, 8*2.5 HDD

2U, 4*3.5 + 4*2.5 HDD

2U, 10PCIE,

2U, 8PCIE, 2*2.5 HDD

XS21V2 & XS22V2 — Feature

XS21V2 & XS22V2 two **specially configured models**; with modular components and excellent expansion capabilities, meeting the special market demand for **storage** and **AI computing**

- Specially configured model 1: The rear window can be expanded to 10 **2.5" hard disk bays**; with two full-height & full-length PCIe expansion slots. Among the 2U models, it can meet customers' storage capacity needs to the greatest extent.
- Specially configured model 2: support **4 V100/A100 GPU cards**, with two full-height & full-length PCIe expansion slots, Among the 2U models, it can achieve the ultimate, industry-leading AI computing power.

Specially configured model 1: with 10x2.5" hard disk



Specially configured model 2: with 4xGPU cards

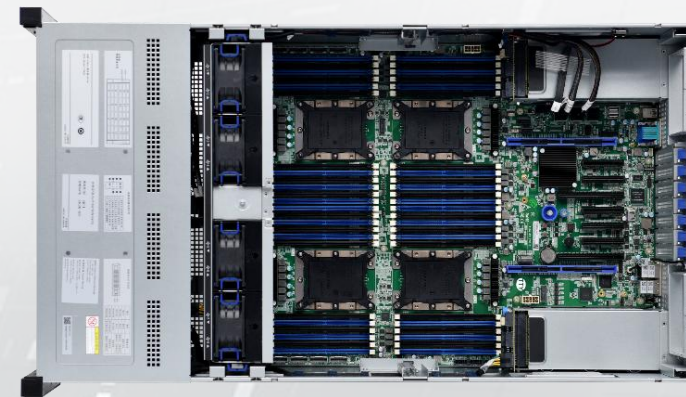


XS21V2/ XS22V2 — Specification



Function	XS21V2	Function	XS22V2
Processor	1 or 2 Intel Xeon scalable processors (Whitley Ice Lake)	Processor	1 or 2 Intel Xeon scalable processors (Whitley Ice Lake)
Chipset	Intel ®C621/C627 (support QAT)	Chipset	Intel ®C621/C627 (support QAT)
Memory	32 DDR4 DIMM slots, 16 channels Support 32 DDR4 RDIMM/LRDIMM, up to 3200MT/s Support 16 Intel BPS DIMMs, up to 3200MT/s Each capacity is 8GB, 16GB, 32GB, 64GB, 128GB, 256G, 512G Up to 12.0TB system memory (Need to match Intel Optane Persistent Memory)	Memory	32 DDR4 DIMM slots, 16 channels Support 32 DDR4 RDIMM/LRDIMM, up to 3200MT/s Support 16 Intel BPS DIMMs, up to 3200MT/s Each capacity is 8GB, 16GB, 32GB, 64GB, 128GB, 256G, 512G Up to 12.0TB system memory (Need to match Intel Optane Persistent Memory)
Storage	Integrated 6Gb/s SATA controller; 12Gb/s SAS HBA and 12Gb/s SAS RAID controller are optional, support mutil-configurations of hard disk. The HDDs support hot-swap, and the motherboard supports 2 built-in M.2 PCIe slots (80mm) • 4 3.5" SAS/SATA HDDs • 10 2.5" SAS/SATA/NVMe HDDs The specific supported configuration is subject to the actual measurement of heat dissipation. Please consult the sales for more models.	Storage	Integrated 6Gb/s SATA controller; 12Gb/s SAS HBA and 12Gb/s SAS RAID controller are optional, support mutil-configurations of hard disk. The HDDs support hot-swap, and the motherboard supports 2 built-in M.2 PCIe slots (80mm) • 8 3.5" SAS/SATA HDDs(front)+4 2.5" SAS/SATA HDDs(rear)+4 2.5" SAS/SATA/NVMe HDDs(rear) • 8 3.5" SAS/SATA HDDs(front)+3/4 GPU • 12 3.5" SAS/SATA HDDs(front)+4 2.5"/3.5" SAS/SATA HDDs(built-in, not hot-swappable)+4 2.5/3.5" SAS/SATA HDDs(rear)+4 2.5" SAS/SATA/NVMe HDDs(rear) • 24 2.5" SAS/SATA HDDs(front)+4 2.5" SAS/SATA/NVMe HDDs(rear) • 25 2.5" SAS/SATA HDDs(front)+4 2.5" NVMe HDDs(rear) • 17 2.5" SAS/SATA HDDs(front)+8 2.5" NVMe HDDs(front)+4 2.5" SAS/SATA HDDs(rear) The specific supported configuration is subject to the actual measurement of heat dissipation. Please consult the sales for more models.
PCI-E expasion	Up to 10 PCI Express 4.0 expasion slots	PCI-E expasion	Up to 10 PCI Express 4.0 expasion slots
Network	Support OCP NIC3.0 network card	Network	Support OCP NIC3.0 network card
Interface	Front: 1 D-Sub VGA、2 USB3.0、1 LCD Mini USB Rear: 1 D-Sub VGA、2 USB3.0、1 RJ45 management network port、1 DB9 COM、1 UID power button(press and hold for 6 seconds to reset BMC)、1 system Reset button	Interface	Front: 1 D-Sub VGA、2 USB3.0、1 LCD Mini USB Rear: 1 D-Sub VGA、2 USB3.0、1 RJ45 management network port、1 DB9 COM、1 UID power button(press and hold for 6 seconds to reset BMC)、1 system Reset button
SD	1 standard Micro SD card (BMC) 1 customized module (support RAID1 dual Micro SD)	SD	1 standard Micro SD card (BMC) 1 customized module (support RAID1 dual Micro SD)
Power	2 power module, support hot-swappable 1+1 redundancy 220v AC/ 240v DC/ 336v DC/ -48v DC input is optional 550W/800W/1300W/1600W/2000W is optional	Power	2 power module, support hot-swappable 1+1 redundancy 220v AC/ 240v DC/ 336v DC/ -48v DC input is optional 550W/800W/1300W/1600W/2000W is optional
Management	onboard BMC management module, support remote management, like IPMI2.0, KVM Over IP, SOL, SNMP, ect; Original factory management software, which can deploy multiple hosts at the same time or carry out specific deployment according to the planned time, monitor the server CPU, memory and other resource utilization, batch log collection, etc. Data center management platform for remote multi-function advanced management LCD management module is optional	Management	onboard BMC management module, support remote management, like IPMI2.0, KVM Over IP, SOL, SNMP, ect; Original factory management software, which can deploy multiple hosts at the same time or carry out specific deployment according to the planned time, monitor the server CPU, memory and other resource utilization, batch log collection, etc. Data center management platform for remote multi-function advanced management LCD management module is optional
Security	Open chassis detection Locked chassis top cover TPM/TCM security module is optional	Security	Open chassis detection Locked chassis top cover TPM/TCM security module is optional
Dimension	1U rack, W 436mm × H 43.6mm ×D 763mm (783mm with hangers)	Dimension	2U rack, W 436mm × H 87mm × D 763mm (783mm with hangers)

XS42/ XS44 — 4S rack high-performance server



- Support 18TB memory
- Support 50 2.5inch or 24 3.5inch hot-swappable HDDs
- Support 15 PCIE slots
- Support 4 full height full length & double width GPU cards
- Support 2U/4U two models

Product Positioning

It is suitable for enterprise core applications that have extremely high requirements on performance and stability, such as databases, ERP, and virtualization.

Target Industry

Education, government, business, military and financial industries.

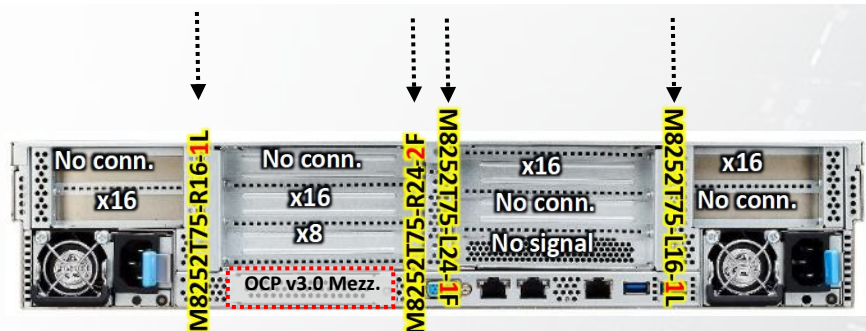
XS42/ XS44 — Specification



Function	XS42	Function	XS44
Processor	4 Intel Xeon scalable processors (Skylake-SP & Cascade Lake-SP & Cascade Lake-SP Refresh) , Platinum 81xx/Gold 61xx/51xx (TDP 85-205W). Support Cross bar fully connected	Processor	4 Intel Xeon scalable processors (Skylake-SP & Cascade Lake-SP & Cascade Lake-SP Refresh) , Platinum 81xx/Gold 61xx/51xx (TDP 85-205W). Support Cross bar fully connected
Chipset	Intel Lewisburg C621	Chipset	Intel Lewisburg C621
Memory	Up to 48 DDR4 DIMM slots, 24 channels	Memory	Up to 48 DDR4 DIMM slots, 24 channels
Memory Type	DDR4 1866/2133/2400/2666/2933MHz, ECC RDIMM/LRDIMM/LPDIMM/LVDIMM/NVDIMM /AEP DIMM	Memory Type	DDR4 1866/2133/2400/2666/2933MHz, ECC RDIMM/LRDIMM/LPDIMM/LVDIMM/NVDIMM /AEP DIMM
Memory Capacity	Each capacity is 8GB, 16GB, 32GB, 64GB, 128GB, Up to 18.0TB	Memory Capacity	Each capacity is 8GB, 16GB, 32GB, 64GB, 128GB, Up to 18.0TB
Storage	Up to 25 2.5inch HDDs	Storage	Up to 24 3.5inch HDDs, all of them are hot-swappable or up to 50 2.5inch HDDs, all of them are hot-swappable or up to 16 2.5inch NVMe SSD, 14+2 of them are hot-swappable Support 2 M.2, 2 SATA DOM, 1 Micro SD Card
PCI-E Expansion Slot	Up to 11 PCIe3.0 expansion slots	PCI-E Expansion Slot	Up to 15 PCIe3.0 expansion slots
GPU	Up to 2 GPU cards	GPU	Up to 4 full height full length & double width GPU cards
LAN	2 integrated 1GbE , 2×1GbE/4×1GbE/2×10GbE/4×10GbE/2×25GbE/2×40GbE network daughter cards for option	LAN	2 integrated 1GbE , 2×1GbE/4×1GbE/2×10GbE/4×10GbE/2×25GbE/2×40GbE network daughter cards for option
Power	2 power modules, support 1+1/ 2+1/ 2+2/ 3+1 redundancy, support hot-swap 220v AC/240v DC/336v DC/-48v DC input option 1600W power	Power	4 power modules, support 1+1/ 2+1/ 2+2/ 3+1 redundancy, support hot-swap 220v AC/240v DC/336v DC/-48v DC input option 1600W power
Interface	Front: 1 D-Sub VGA、 2 USB3.0、 1 LCD Mini USB	Port	Front: 1 D-Sub VGA、 2 USB3.0、 1 LCD Mini USB
	Rear: 1 D-Sub VGA、 4 USB3.0、 1 RJ45 for BMC、 2 RJ45 for enternet		Rear: 1 D-Sub VGA、 4 USB3.0、 1 RJ45 for BMC、 2 RJ45 for enternet
Dimension	2U rack server, W448mm × H87.5mm × D840mm (820mm without hangers)	Dimension	4U rack server, W448mm × H175mm × D840mm (820mm without hangers)
Weight	The net weight of the full configuration is about 31KG, and the full configuration including guide, accessories and package is about 42KG	Weight	The net weight of the full configuration is about 45KG, and the full configuration including guide, accessories and package is about 70KG
Operating Temperature	0°C - 45°C	Operating Temperature	0°C - 45°C
Operating Relative Humidity	0% - 90%	Operating Relative Humidity	0% - 90%

AMD Rack Server

ES22-T — 2S server designed for HPC/VM applications



- **2U2S Rome/Milan platform** supports for up to 32 DIMMs, 2 10GbE onboard LAN, and 1 OCP 3.0 LAN mezzanine slot
- **Dimension:** H87mm x W438.4mm x D750mm (29.53")
- **AMD EPYC™ 7002/7003 Processor w/ cTDP up to 240W**
 - No support for AMD EPYC™ 7001 processor
- **Memory**
 - Ø (16+16)*DDR4 DIMM slots (8x memory channels)
 - Support up to 8,192GB RDIMM/LRDIMM DDR4 3200/2933 memory
- **PCI Expansion Slots**
 - Ø 2* FH/10.5" L x16 + 1* FH/HL PCIe [Gen.4](#) x8 slots via 2 risers
 - 2* HH/HL PCIe [Gen.4](#) x16 slots via the other 2 risers
 - 1* PCIe [Gen.4](#) x16 OCP 3.0 mezz. slot for optional LAN mezz. up to 200Gb/s
- **Network**
 - Ø 2* 10GBase-T LAN ports (Intel® x550-AT2)
 - 1* 1000Base-T dedicated IPMI port (Realtek RTL8211E-VB-CG)
- **Storage**
 - 8* **hot-swap, tool-less** 3.5" SATA 6G (from CPU) + 4* **hot-swap, tool-less** NVMe U.2 (from CPU) trays
 - 2* 22110/2280 NVMe M.2 slots (PCIe [Gen.4 x4](#) from CPU)
- **6* 6038 hot-swap fans**
- **1+1 1600W hot-swap RPSU @ 220V_{AC} , 80+ Platinum**

Product Code	Networking	Storage	Max. PCIe slot
ES22	2* 10GBase-T + 1* IPMI	12* SATA 6G; 4* NVMe U.2	4* x16 + 1* x8 + 1* OCP 3.0 mezz.



ES22-T — Specification



Function	ES22-T		Function	ES22-T		
System	Form Factor	2U Rackmount	Storage	SATA	Connector	2 SFF-8654 connectors for 12 front SATA
	Dimension (D x W x H)	29.56" x 17.26" x 3.43" (750.8 x 438.4 x 87mm)			Controller	Direct from AMD EPYC CPU
	Gross Weight	30 kg (66 lbs)			Speed	6Gb/s
	Net weight	19 kg (42 lbs)			RAID	N/A
Front Panel	Buttons	1 RST / 1 ID / 1 PWR w/ LED	NVMe	Connector (U.2)	2 SFF-8654 connectors for 4 front NVMe	
	LEDs	1 HDD / 2 LAN / 1 ID / 1 BMC event		Connector (M.2)	2 22110/2280 (by PCIe Gen.4 interface)	
	I/O Ports	2 USB 3.2 Gen.1 ports				
External Drive Bay	Q'ty / Type	12 3.5/2.5" Hot-Swap SSD/HDD	Input /Output	USB	2 USB3.2 Gen.1 ports (@ front) 2 USB3.2 Gen.1 ports (@ rear)	
	HDD backplane support	SAS 12Gb/s /SATA 6Gb/s / NVMe		COM	2 headers (COM1, COM2)	
	Supported HDD Interface	12 SATA 6Gb/s with 4 NVMe ports		VGA	1 D-Sub 15-pin port	
	Notification	The SAS/SATA HDD backplane is connected to onboard SATA connection by default. Please contact IP3 technical support if a discrete SAS HBA/RAID adapter is required		RJ45	2 10GbE ports + 1 GbE dedicated for IPMI	
System Cooling Configuration	FAN	6 6cm fans	TPM(Optional)	TPM Support	Please refer to our TPM supported list.	
Power Supply	Type	CRPS	System Monitoring	Chipset	Aspeed AST2500	
	Input Range	AC 100-127V/12A / AC 200-240V/9.48A		Voltage	Monitors voltage for CPU, memory , chipset & power supply	
	Efficiency	80 plus Platinum		Temperature	Monitors temperature for CPU & memory & system environment	
	Output Watts	1,600 Watts		LED (On system front panel)	Over temperature warning indicator, Fan & PSU fail LED indicator	
	Redundancy	1+1	Others	Watchdog timer support		
Processor	Q'ty / Socket Type	2 AMD Socket SP3	Server Management	Server Management	Onboard Aspeed AST2500	
	Supported CPU Series	2 AMD EPYC™ 7002/7003 Series Processors		AST2500 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
	Thermal Design Power (TDP) wattage	Max up to 240W		AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
Memory	Supported DIMM Qty	16+16 DIMM slots	BIOS	Brand / ROM size	AMI / 32MB	
	DIMM Type / Speed	DDR4 ECC RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 3200		Feature	Hardware Monitor / SMBIOS 3.0/PnP/Wake on LAN / Boot from USB device/PXE via LAN/Storage / Console Redirection / ACPI sleeping states S0,S1,S5 / FAN speed control automatic / ACPI 6.0	
	Capacity Memory channel	Up to 8192GB RDIMM	Operating System	OS supported list	Please refer to our AVL support list	
	Memory channel	8 Channels per CPU				
Memory voltage	1.2V	Expansion Slots	Regulation	FCC (SDoC)	Class A	
Expansion Slots	SKU1			Up to 4 PCIe4.0 x16 slots + 1 PCIe4.0 x8 slot via riser cards + 1 PCIe4.0 x16 OCP 3.0 slot	CE (DoC)	Class A
	SKU2			Up to 9 PCIe4.0 x8 slots + 1 PCIe4.0 x16 OCP 3.0 slot	VCCI	Class A
LAN	Port Q'ty	2 10GbE ports+ 1 GbE port dedicated for IPMI		RCM	Class A	
	Controller	IntelX550-AT2		CB/LVD	Yes	
Graphic	PHYController	Realtek RTL8211E	Operating Environment	Operating Temp.	10° C ~ 35° C (50° F~ 95° F)	
	Connector type	D-Sub 15-pin		Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)	
	Resolution	Up to 1920x1200	In/Non-operating Humidity	90%, non-condensing at 35° C RoHS		
	Chipset	Aspeed AST2500	RoHS	RoHS 6/6 Complaint	Yes	



Standard MB & OPS

Roadmap

2022Q3
v1.1

Standard MB Naming Rules

H 6 1 T 1

Platform

Mobile Platform:

ADP - Intel Alderlake P

TGU - Intel Tigerlake

UP3/H35

CZU - AMD Cezanne U

Desktop Platform:

H61 - Intel H610 (Alderlake S)

H51 - Intel H510 (Rocketlake S)

A52 - AMD A520 (AM4)

Form Factor

A - ATX

M- Micro ATX

I - Mini ITX

T - Thin Mini ITX

V - Nano ITX

C - Customized

3 - 3.5"

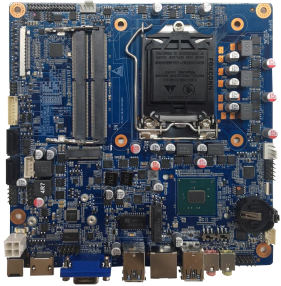
Series Code

Num 1-9: Consumer

Letter A-Z: Industrial

Product Series

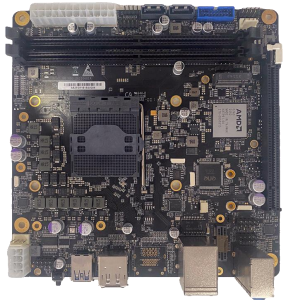
Thin Mini ITX



170*170*25mm
for AIO & Box

intel. AMD 兆芯

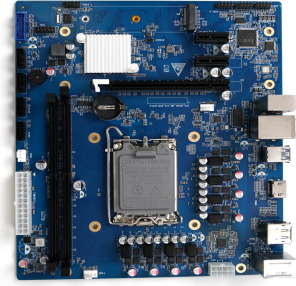
Mini ITX



170*170*44mm
for Box

intel. AMD 兆芯

Micro ATX



≤244*244*44mm
for Desktop

intel. AMD 兆芯

ATX



≤305*244*44mm
for Desktop

兆芯

Nano ITX



120*120mm

intel.

3.5" Embedded



146*102mm

intel.

OPS (C)



OPS 119*180*30 mm
OPS-C 195*180*42mm

intel.

Element



170*180*42mm

intel.

01 Standard MB Roadmap

Thin Mini ITX—for AIO & BOX

MP

Deveoping

Planning

S

H61T1
MP on 2022,Q2
ADL-S 65W (Up to i5)
H610 chipset
2*DDR4 SODIMM

Q67T4
MP on 2022,Q3
ADL-S 65W (Up to i7)
Q670 chipset (vPro)
2*DDR4 SODIMM

RPL-S on Q67T4
MP on 2022,Q4
65W (Up to i7)
DDR4

H51T1
MP on 2022,Q4
RKL-S 65W
H510 chipset
2*DDR4 SODIMM

RPL-S on H61T1
MP on 2022,Q4
65W (Up to i5)
DDR4

U/H

TGUT1
MP on 2022,Q2
TGL-U/H35
28W/35W
2*DDR4 SODIMM

TGHT1
MP on 2022,Q3
TGL-H45 + HM570
45W
2*DDR4 SODIMM

ADPT1
MP on 2022,Q3
ADL-P
15W/28W/45W
2*DDR4 SODIMM

RPL-P on ADPT1
MP on 2023,Q1
Up to 45W
DDR5

ADPT2 (for PST)
MP on 2022,Q3
ADL-P
15W/28W/45W
2*DDR4 SODIMM

GLKT2 (for PST)
MP on 2022,Q3
GLK-N/J 10W
1*DDR4 SODIMM

ADL-N
MP on 2022,Q4
6W/10W

Small
Core

JSLT1
MP on 2022,Q3
JSL- 15W
1*DDR 4 SODIMM

2022Q2

2022Q3

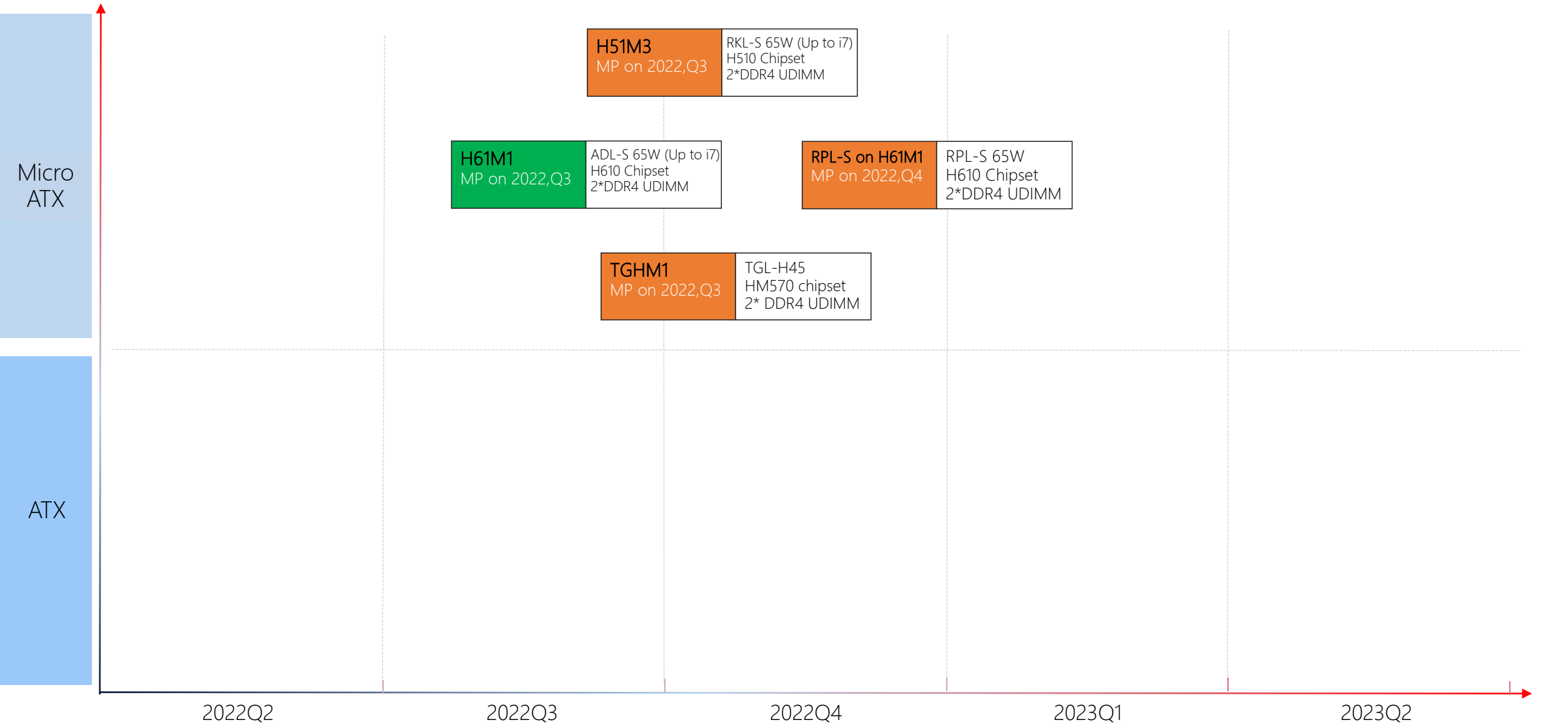
2022Q4

2023Q1

2023Q2

Micro ATX/ ATX—for desktop

MP Deveoping Planning

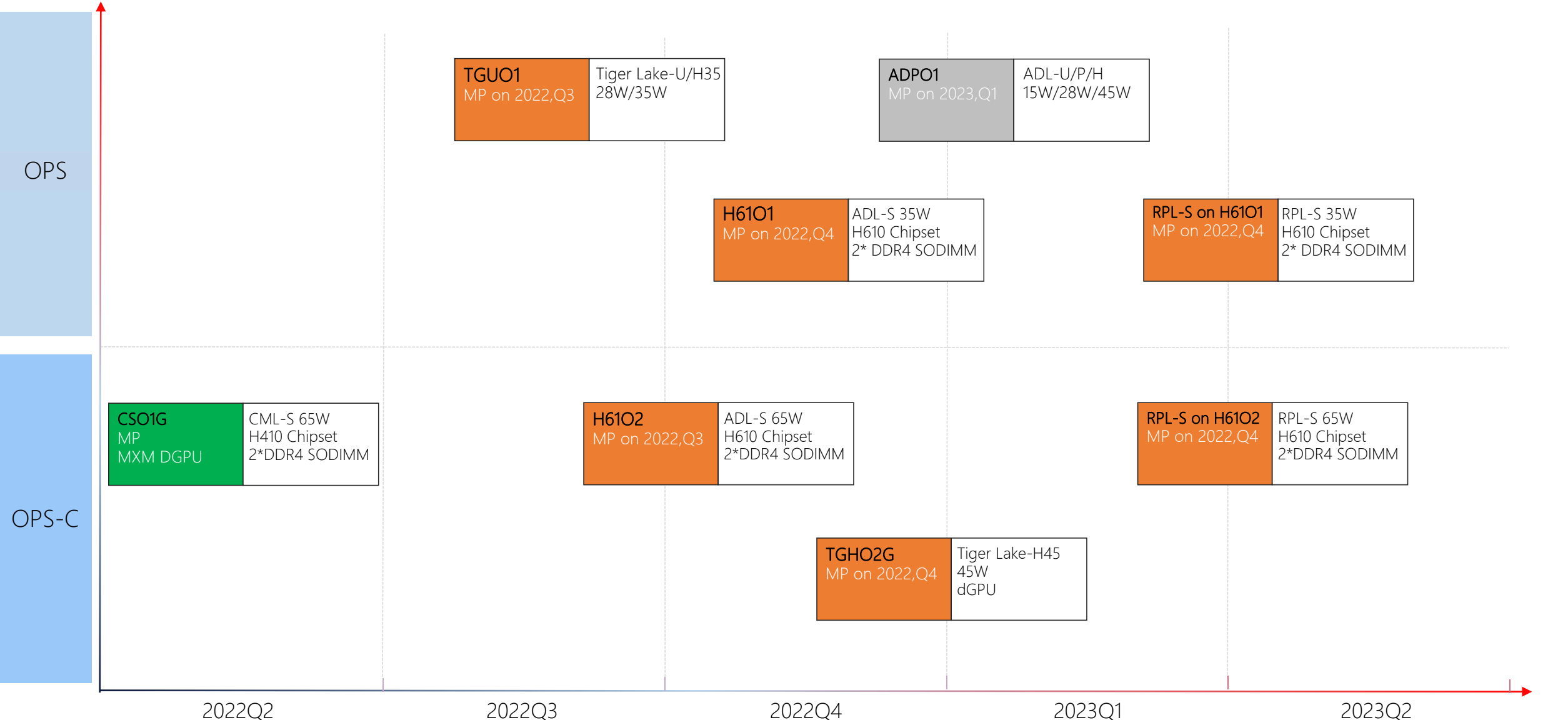


OPS/ OPS-C

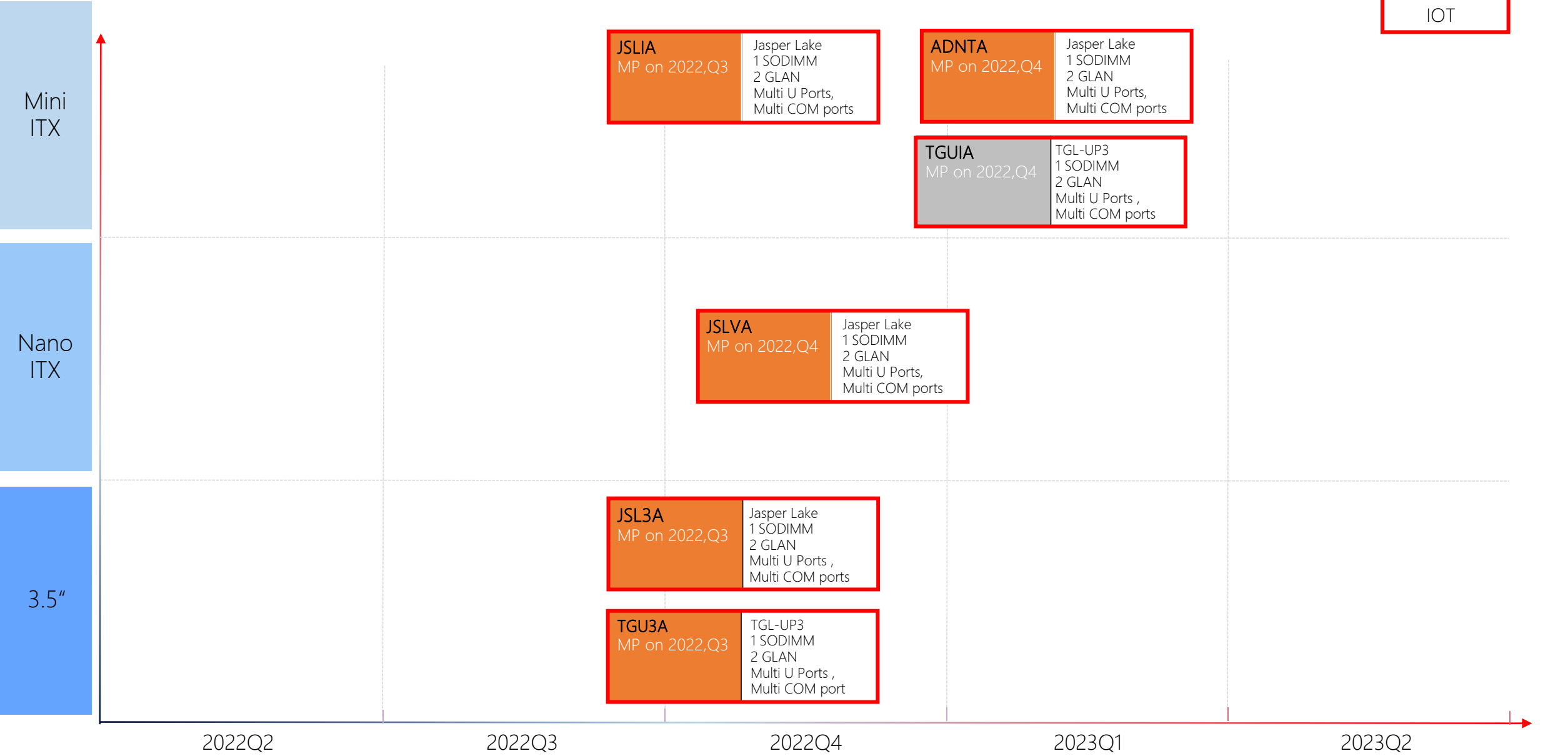
MP

Deveoping

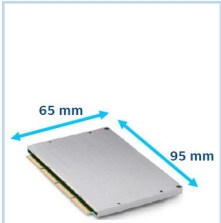
Planning



Emebded



Element-U



STD IO

COM*7
USB3.0*4
USB2.0*4
RS485*1
GPIO*1
AUDIO*1
M.2 SSD*1

DC 12~24V

NUC8
NUC11

NUC1
2
MP@2022,
Q2

NC3
WHL/TGL-U
MP on 2021,Q1

+ HDMI *3
+ LVDS/EDP *1
+ RJ45 *2

NC3A
WHL/TGL-U
MP on 2022,Q1

+ HDMI *2
+ LVDS/EDP *1
+ SATA *1
+ RJ45 *1

NC3B
WHL/TGL-U
MP on 2022,Q1

+ HDMI *4
+ RJ45 *2

NC3C
WHL/TGL-U/
ADL-P
MP on 2022,Q2

+ HDMI *2
+ RJ45 *5
- COM *1

NC3 V2.0
WHL/TGL-U/
ADL-P
MP on 2022,Q2

+ HDMI *3
+ LVDS/EDP *1
+ RJ45 *2

NC3A V2.0
WHL/TGL-U/
ADL-P
MP on 2022,Q2

+ HDMI *2
+ LVDS/EDP *1
+ SATA *1
+ RJ45 *1

NC3B V2.0
WHL/TGL-U/
ADL-P
MP on 2022,Q2

+ HDMI *4
+ RJ45 *2

MP

Deveoping

Planning

IOT

2021Q4

2022Q1

2022Q2

2022Q3

2022Q4

Thin Mini ITX—for AIO & BOX

MP

Deveoping

Planning

S

X30T1
Ryzen2000/3000/
4000/5000Series
MP on 2022,Q3

AM4 65W
A300 chipset
2*DDR4 SODIMM

X30T1V
Ryzen2000/3000/
4000/5000Series
MP on 2022,Q3

AM4 65W
A300 chipset
2*DDR4 SODIMM

AM5T1
MP on 2022,Q4

AM5 65W
A300 chipset
2*DDR5 SODIMM

CZUT1
MP on 2022,Q3

Renior-U/H
Cezanne-U/H
Lucienne-U
Barcelo-U

U/H

PCUT1
MP on 2021

Picasso, Dali

CZUT1D
MP on 2022,Q3

Renior-U/H
Cezanne-U/H
Lucienne-U
Barcelo-U

RMHT1
MP on 2022,Q4

Rembrandt U/H
2*DDR5 SODIMM

Small
Core

STRT1
MP on 2022,Q3

Stoney Ridge
10W
2*DDR4 SODIMM

2022Q2

2022Q3

2022Q4

2023Q1

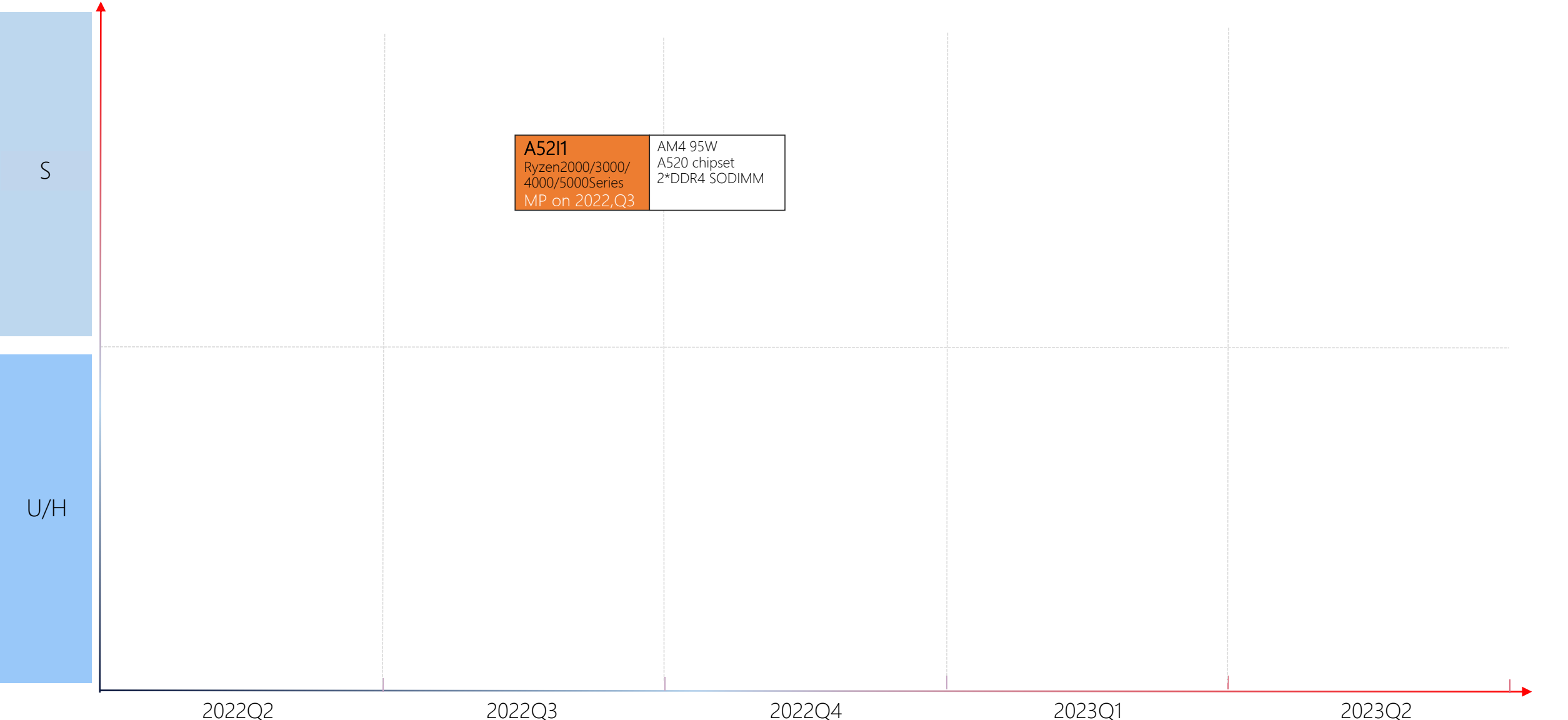
2023Q2

Mini ITX—for BOX

MP

Deveoping

Planning



Micro ATX—for desktop

MP

Deveoping

Planning

S

ATD1 MP	AMD AM4 X300/A300 65W 2*DDR4 UDIMM
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A52M2 Ryzen2000/3000/ 4000/5000Series MP on 2022,Q3	AM4 65W A520 chipset 2*DDR4 UDIMM
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MP on 2022,Q4	AM5 CPU Support
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2022Q2

2022Q3

2022Q4

2023Q1

2023Q2

1 Zhaoxin MB Roadmap



MP

Deveoping

Planning

Thin
Mini
ITX

EA170
MP on 2020

KX-6000
25W/35W
2*DDR4 SODIMM

ZGT1
MP on 2022,Q4

KX-6000G
2*DDR4 SODIMM

Mini
ITX

EA170C
MP on 2020

KX-6000
25W/35W/70W
2*DDR4 UDIMM

Micro
ATX

ZED1
MP on 2020

KX-6000
70W
2*DDR4 UDIMM

ATX

ZED3
MP on 2020

KX-6000
25W/70W
4*DDR4 SODIMM

2022Q2

2022Q3

2022Q4

2023Q1

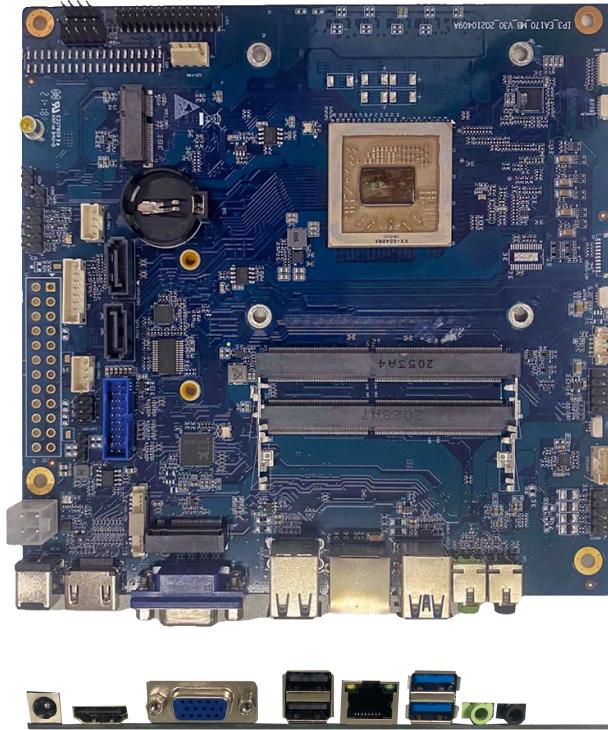
2023Q2

02 Standard MB Catalog

Thin Mini ITX

EA170

MP



170*170*25mm

Specification

CPU	Zhaoxin KX-6000	
Memory	2*DDR4 SO-DIMM, Up to 32GB	
WiFi	M.2 2230 PCIe (Wifi+BT)	
Power	19V DC IN/ATX Power(Optional)	
OS	Windows/UOS/中标麒麟/中科方德	
	Internal I/O	Rear I/O
Voice	1*Speaker	1*Headphone + 1*MIC
USB	2*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 2*USB3.2 Gen1
Display	1*LVDS + 1*eDP	1*VGA + 1*HDMI 1.4
Power	1*ATX Power(Optional)	1*DC_IN (Option)
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU FAN + 1*System FAN	/
Expansion	1*M.2 2242/2280 SATA(SSD)	

Mini ITX

EA170C

MP



170*170*44mm

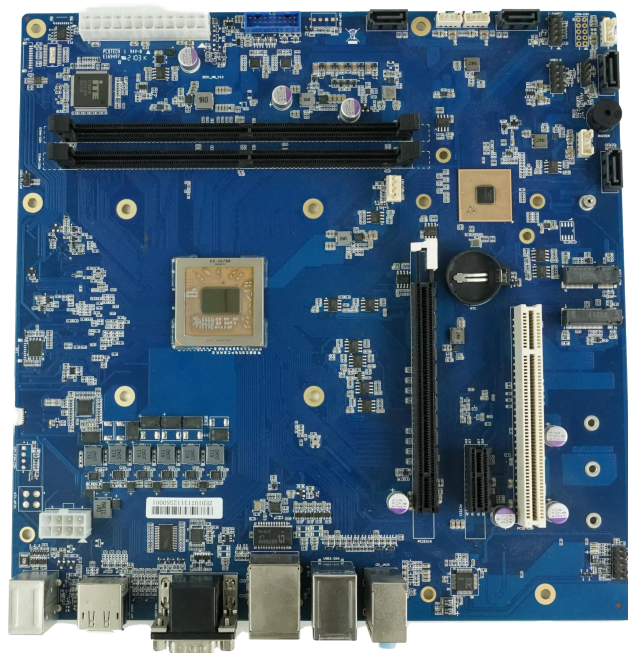
Specification

CPU	Zhaoxin KX-6000	
Memory	2*DDR4 U-DIMM, Up to 32G	
WiFi	M.2 2230 PCIe (Wifi+BT)	
Power	ATX Power	
OS	Windows/UOS/中标麒麟/中科方德	
	Internal I/O	Rear I/O
Voice	1*Audio	2*LINE_OUT/MIC JACK
USB	/	4*USB2.0 + 6*USB3.2 Gen1
Display	/	1*VGA + 1*HDMI 1.4
LAN	1*SIM (3G/4G)	2*RJ45(GLAN)
Power	1*ATX Power + 1*ATX DC_IN	/
Storage	2*SATA	/
FAN	1*CPU FAN + 1*System FAN	/
F_Panel	1*Standard F_Panel	/
COM	/	2*COM
Others	1*GPIO+3*Jumper+1*SMBUS 3.3V	1*PS/2
Expasion	1*MB-DB_CON + 1*M.2 2242 SATA (SSD)	

Micro ATX

ZED1

MP



244*244*44mm

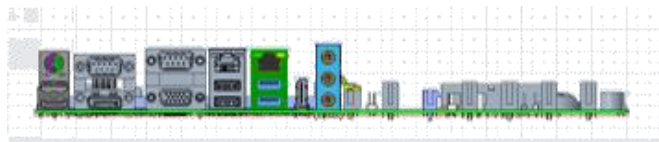
Specification

CPU	Zhaoxin KX-6000	
Memory	2*DDR4 U-DIMM, Up to 32G	
WiFi	M.2 2230 PCIe (Wifi+BT)	
Power	ATX Power	
OS	Windows/UOS/中标麒麟/中科方德	
	Internal I/O	Rear I/O
Voice	1*Audio	1*Audio (立式3孔)
USB	3*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 4*USB3.2 Gen1
Display	/	1*DP + 1*VGA + 1*HDMI 1.4
LAN	/	1*RJ45(GLAN)
Power	1*ATX Power + 1*ATX DC_IN	/
Storage	4*SATA	/
FAN	3*CPU FAN	/
Others	/	1*COM + 2*PS/2
Expasion	1*PCI + 1*PCIe×1 + 1*PCIe×16 1*M.2 2240/2260/2280 PCIe&SATA (SSD)	

ATX

ZED3

MP



305*244*44mm

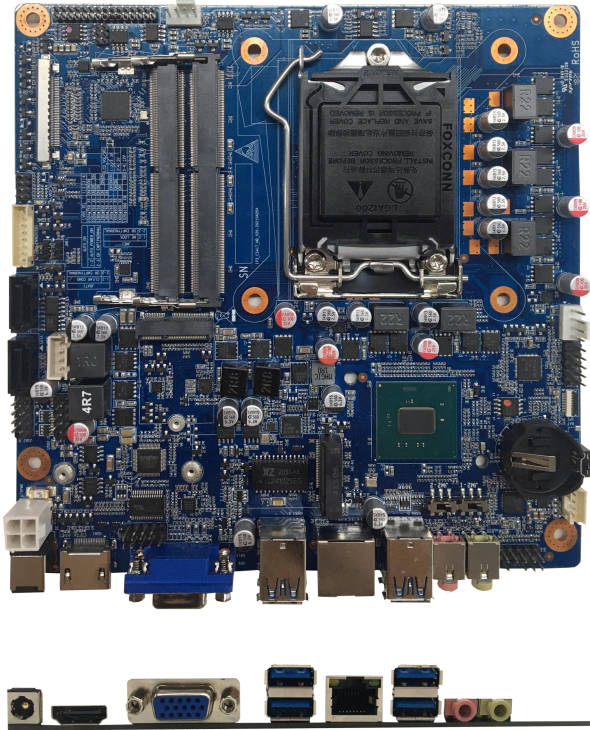
Specification

CPU	Zhaoxin KX-6000	
Memory	4*DDR4 U-DIMM, Up to 64G	
Power	ATX Power	
OS	Windows/UOS/中标麒麟/中科方德	
	Internal I/O	Rear I/O
Voice	1*Audio	1*Audio (立式3孔)
USB	/	4*USB2.0 + 2*USB3.2 Gen1
Display	/	1*DP + 1*VGA + 1*HDMI
LAN	/	2*RJ45 (GLAN)
Power	1*ATX Power + 1*ATX DC_IN	/
Storage	2*SATA	/
FAN	1*FAN	/
F_Panel	1*F_Panel	/
Others	1*GPIO + 1*COMS + 1*Jumper	2*COM + 2*PS/2
Expasion	1*PCIe×4 + 1*PCIe×8(×16Slot)	

Thin Mini ITX

CSA1T

MP



170*170mm

Specification

CPU	Intel Comet Lake-S	
Chipset	H410/B460	
Memory	2*DDR4 SO-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Earphone + 1*MIC_IN
USB	3*USB2.0	4*USB3.2 Gen1
Display	1*eDP + 1*LVDS	1*VGA + 1*HDMI 1.4
Power	1*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU/System FAN	/
COM	1*COM	/
Expasion	1*M.2 2280 PCIe×4&SATA (SSD)	

Thin Mini ITX	B46T1	MP	Specification		
170*170mm	CPU	Intel Comet Lake-S			
	Chipset	B460			
	Memory	2*DDR4 SO-DIMM, Up to 64G			
	WiFi	M.2 2230 PCIe&USB			
	Power	19V DC IN			
	OS	Windows			
		Internal I/O		Rear I/O	
	Voice	1*Audio + 1*Speaker	1*Earphone + 1*MIC_IN		
	USB	2*USB2.0	4*USB3.2 Gen1 + 2*USB2.0		
	Display	1*eDP + 1*LVDS	1*DP + 3*HDMI 1.4		
	Power	1*SATA Power + 1*Power_CON	1*DC_IN		
	LAN	/	1*RJ45 (GLAN)		
	Storage	2*SATA	/		
	FAN	1*CPU/System FAN	/		
	COM	1*COM	/		
	Expasion	1*M.2 2280 PCIe×4&SATA (SSD)			

Thin Mini ITX

H61T1

MP



170*170mm

Specification

CPU	Intel Alder Lake-S	
Chipset	H610/Q670/B660	
Memory	2*DDR4 SO-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB2.0	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Speaker + 1*Front_Audio	1*Earphone + 1*MIC_IN
USB	3*USB2.0 + 1*USB3.2 Gen1	2*USB3.2 Gen1 + 2*USB2.0
Display	1*eDP + 1*LVDS	1*VGA + 1*HDMI 1.4
Power	2*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU/System FAN	/
COM	1*COM	/
Expasion	1*M.2 2280 PCIe×4&SATA (SSD)	

Thin Mini ITX

Q67T4

Developing

170*170mm

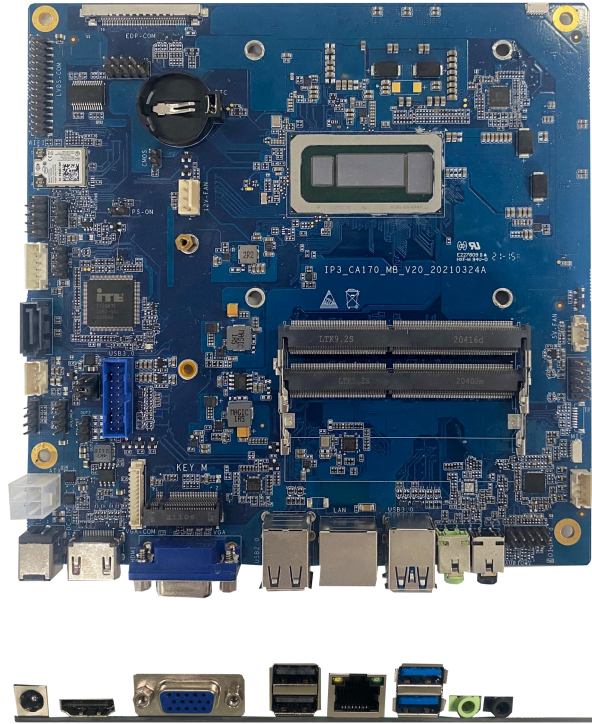
Specification

CPU	Intel Alder Lake-S	
Chipset	Q670	
Memory	2*DDR4 SO-DIMM, Up to 64G	
WiFi	M.2 2280 PCIe&USB2.0	
Power	19V DC IN	
OS	Windows11(64bit), Linux	
	Internal I/O	Rear I/O
Voice	1*Speaker + 1*Front_Audio	1*Earphone + 1*MIC_IN
USB	2*USB2.0 + 1*USB3.2 Gen1	2*USB3.2 Gen1 +2*USB2.0 +1*USB3.2 Gen1 Type-C(Data)
Display	1*eDP + 1*LVDS	1*DP + 1*HDMI2.0_OUT+ 1*HDMI1.4_OUT+1*HDMI_IN
Power	2*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU/System FAN	/
Others	1*COM + 1*Intrusion Switcher	/
Expasion	1*M.2 2242/2280 PCIe3.0×4&SATA (SSD)	

Thin Mini ITX

CA170

MP



170*170mm

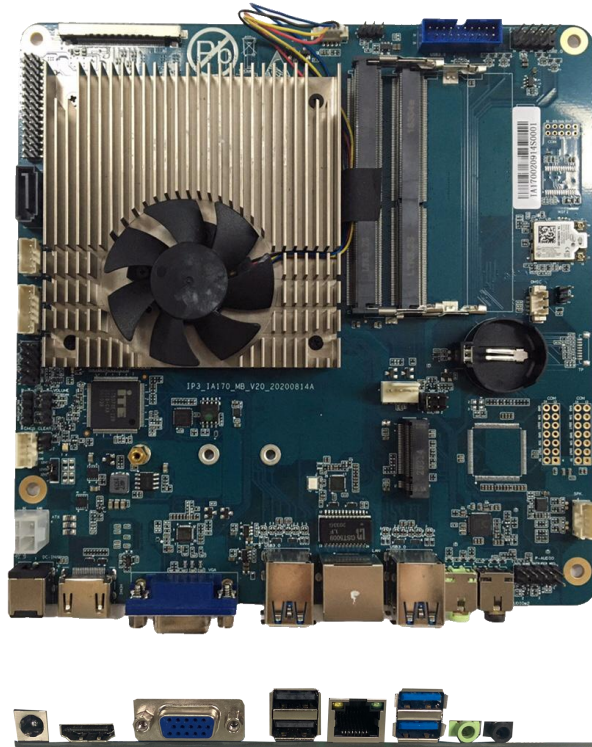
Specification

CPU	Intel WHL-U/CFL U42/CML-U	
Memory	2*DDR4 SO-DIMM, Up to 64G	
WiFi	M.2 1216 PCIe (Wifi+BT)	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker + 1*DMIC	1*Earphone + 1*MIC_IN
USB	6*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 2*USB3.2 Gen1
Display	1*eDP + 1*LVDS	1*VGA + 1*HDMI 1.4
Power	1*ATX Power(Optional)	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	1*SATA	/
FAN	2*CPU FAN	/
Light	1*Power LED + 1*HD LED	/
Button	1*Bright Button + 1*Power Button	/
COM	1*COM	/
Expasion	1*M.2 2280 PCIe×4&SATA (SSD)	

Thin Mini ITX

IA170

MP



170*170mm

Specification

CPU	Intel Ice Lake	
Memory	2*DDR4 SO-DIMM, Up to 16G	
WiFi	M.2 1216 PCIe (Wifi+BT)	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker + 1*DMIC	1*Earphone + 1*MIC_IN
USB	2*USB2.0	4*USB3.2 Gen1
Display	1*LVDS	1*VGA + 1*HDMI 2.0
Power	1*ATX Power(Optional)	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	1*SATA	/
FAN	1*CPU FAN + 1*System FAN	/
Light	1*Power LED + 1*HD LED	/
Button	1*Bright Button + 1*Power Button	/
COM	1*COM	/
Expasion	1*M.2 2280 PCIe×4&SATA (SSD)	

Thin Mini ITX

TGHT1

Developing



170*170mm

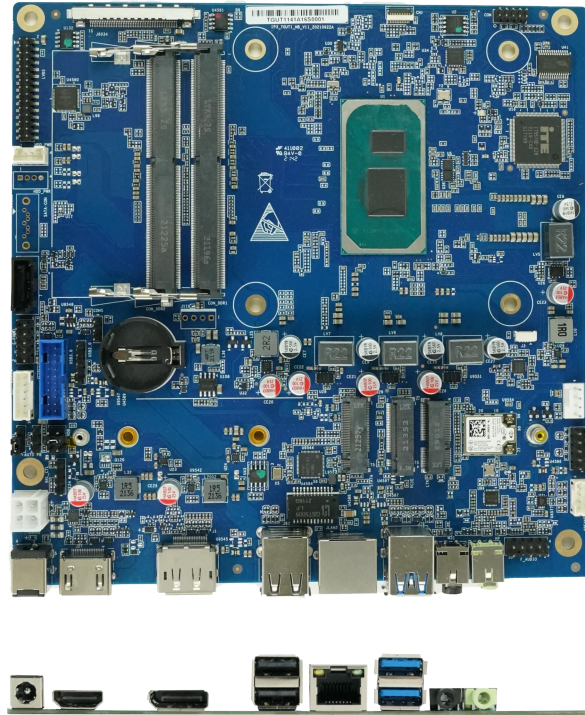
Specification

CPU	Intel Tiger Lake-H45	
Chipset	HM570	
Memory	2*DDR4 SO-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB2.0	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Earphone + 1*MIC_IN
USB	3*USB2.0 + 2*USB3.2Gen1	2*USB2.0 + 2*USB3.2 Gen2
Display	1*LVDS + 1*eDP + 1*DP	1*HDMI 1.4 + 1*VGA
Power	2*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU/System FAN	/
COM	1*COM	
Expasion	1*M.2 2242/2280 PCIe×4+SATA	

Thin Mini ITX

TGUT1

MP



170*170mm

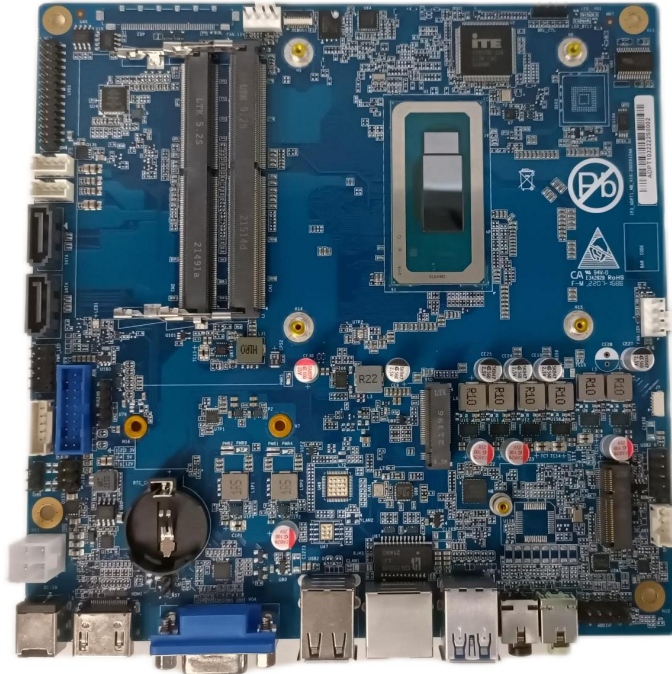
Specification

CPU	Intel Tiger Lake-UP3/H35	
Memory	2*DDR4 SO-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB2.0	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Earphone + 1*MIC_IN
USB	3*USB2.0 + 1*USB3.2Gen1	2*USB2.0 + 2*USB3.2 Gen1
Display	1*LVDS + 1*eDP	1*HDMI 1.4 + 1*DP 1.4
Power	2*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU/System FAN	/
Button	1*Brightness Button (Option)	
Others	1*F_Panel + 1*COMS + 1*COM + 1*Power Switch	
Expasion	1*M.2 2242/2280 SATA3.0 (SSD)	
	1*M.2 2242/2280 PCIe4.0×4 (SSD)	

Thin Mini ITX

ADPT1

Developing



170*170mm

Specification

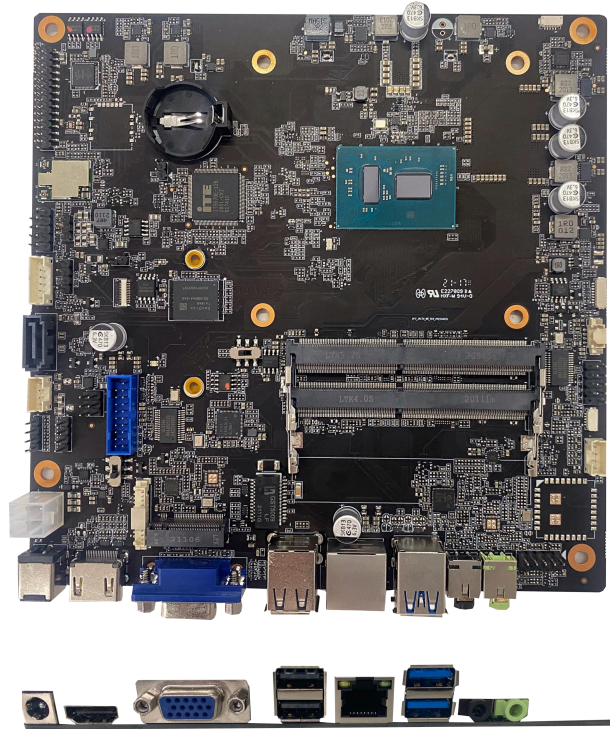
CPU	Intel Alder Lake-P	
Memory	2*DDR4 SO-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB2.0	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Earphone + 1*MIC_IN
USB	2*USB2.0	2*USB2.0 + 2*USB3.2 Gen1
Display	1*LVDS + 1*eDP + 1*VGA	1*HDMI 1.4 + 1VGA
Power	1*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	1*SATA + 1*UFS2.1	
FAN	1*CPU/System FAN	/
Others	1*F_Panel	/
Expasion	1*M.2 2280 PCIe4.0×4 (SSD)	

Thin Mini ITX	ADPT2	MP	Specification		
170*170mm			CPU	Intel Alder Lake-P	
			Memory	2*DDR4 SO-DIMM, Up to 64G	
			WiFi	M.2 2230 PCIe&USB2.0	
			Power	19V DC IN	
			OS	Windows 10(64bit), Windows 11, Linux	
				Internal I/O	Rear I/O
			Voice	1*Speaker	1*Audio Combo
			USB	/	2*USB2.0 + 2*USB3.2 Gen2
			Display	1*LVDS	1*HDMI 1.4
			Power	1*SATA Power + 1*Power_CON	1*DC_IN
			LAN	/	1*RJ45 (GLAN)
			Storage	1*SATA (option) + 1*UFS2.1	/
			FAN	1*CPU/System FAN	/
			Others	/	/
			Expasion	1*M.2 2242/2280 PCIe4.0×4 (SSD)	

Thin Mini ITX

JA170

MP



170*170mm

Specification

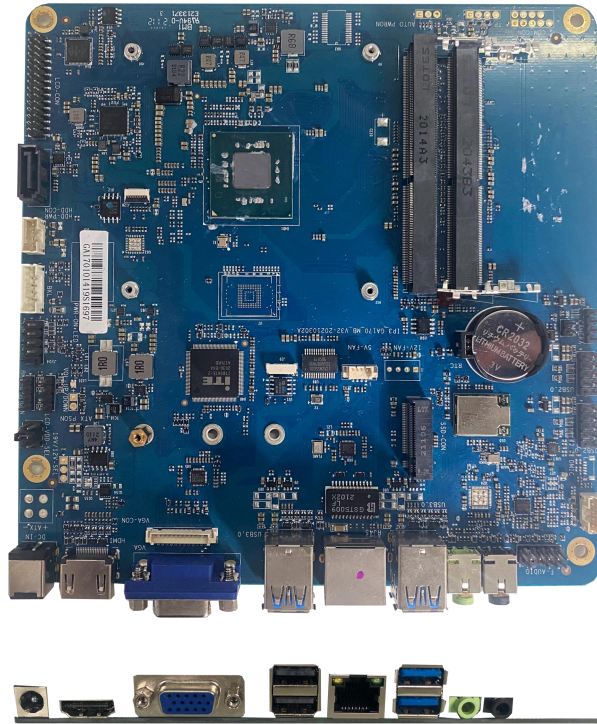
CPU	Intel Jasper Lake	
Memory	2*DDR4 SO-DIMM, Up to 16GB	
WiFi	M.2 1216 PCIe (Wifi+BT)	
Power	12V/19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*DMIC + 1*Speaker	1*Earphone + 1*MIC_IN
USB	3*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 2*USB3.2 Gen1
Display	1*LVDS	1*VGA + 1*HDMI 1.4
Power	1*SATA Power + Power CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	1*SATA	/
FAN	1*CPU FAN	/
Expasion	1*M.2 2280 SATA (SSD)	

Thin Mini ITX	JSLT1	MP	Specification		
170*170mm	CPU	Intel Jasper Lake			
	Memory	1*DDR4 SO-DIMM, Up to 16GB			
	WiFi	M.2 2230 PCIe&USB (Wifi+BT)			
	Power	19V DC IN			
	OS	Windows 10(64bit)/Windows 11(64bit)/Linux			
		Internal I/O	Rear I/O		
	Voice	1*Audio + 1*Speaker	1*Earphone + 1*MIC_IN		
	USB	3*USB2.0	4*USB3.2 Gen1		
	Display	1*LVDS + *eDP	1*VGA + 1*HDMI 1.4		
	Power	1*SATA Power + Power CON	1*DC_IN		
	LAN	/	1*RJ45 (GLAN)		
	Storage	1*SATA	/		
	FAN	1*CPU FAN + 1*System FAN	/		
	Expasion	1*M.2 2242/2280 PCIe×2&SATA (SSD)			

Thin Mini ITX

GA170

MP



170*170mm

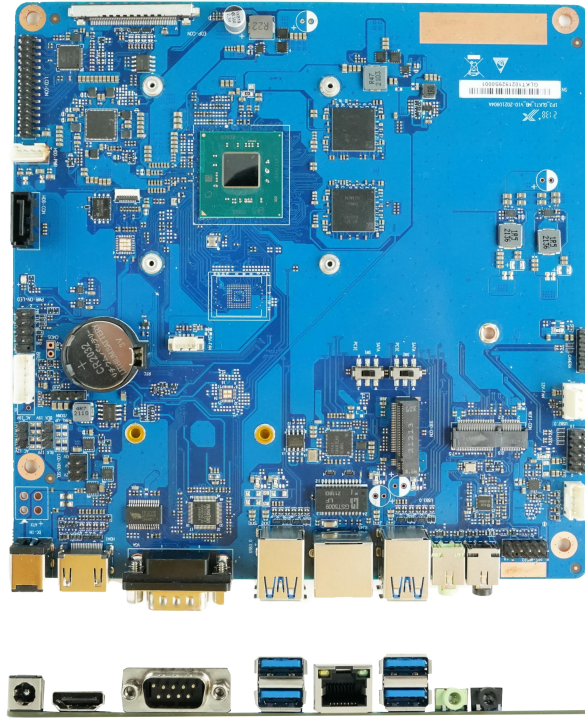
Specification

CPU	Intel Gemini Lake	
Memory	2*DDR4 SO-DIMM, Up to 16GB	
WiFi	M.2 1216 PCIe (Wifi+BT)	
Power	12V/19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker + 1*DMIC	1*Earphone + 1*MIC_IN
USB	5*USB2.0	4*USB3.2 Gen1
Display	1*VGA + 1*LVDS	1*VGA + 1*HDMI 1.4
Power	1*ATX Power	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	1*SATA	/
FAN	1*CPU FAN + 1*System FAN	/
Light	1*Power LED + 1*HD LED	/
Button	1*Bright Button + 1*Voice Button	/
COM	1*COM	/
Expasion	1*M.2 2280 SATA (SSD)	

Thin Mini ITX

GLKT1

MP



170*170mm

Specification

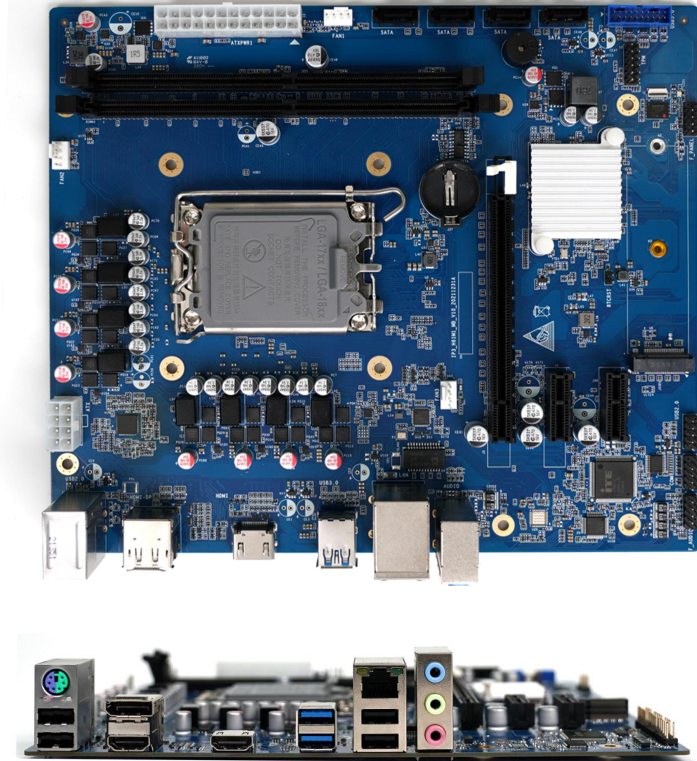
CPU	Intel Gemini Lake/Gemini Lake-R	
Memory	2*LPDDR4X 556/366 ball, Up to 8G	
WiFi	M.2 2230 PCIe&USB2.0	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Earphone + 1*MIC_IN
USB	2*USB2.0	4*USB3.2 Gen1
Display	1*LVDS + 1*eDP + 1*VGA	1*HDMI 1.4
Power	1*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	1*SATA	/
FAN	1*CPU/System FAN	/
Others	1*F_Panel	1*COM
Expasion	1*M.2 2242/2280 PCIe×2&SATA (SSD)	

Thin Mini ITX	GLKT2	MP	Specification		
170*170mm	CPU	Intel Gemini Lake/Gemini Lake-R			
	Memory	1*DDR4 SO-DIMM, Up to 8G			
	WiFi	M.2 2230 PCIe&USB2.0			
	Power	19V DC IN			
	OS	Windows 10(64bit), Windows 11, Linux			
		Internal I/O	Rear I/O		
	Voice	1*Audio + 1*Speaker	1*Audio Combo		
	USB	4*USB2.0+1*USB3.2	2*USB2.0 + 2*USB3.2 Gen1		
	Display	1*LVDS + 1*eDP + 1*VGA	1*HDMI 1.4		
	Power	1*SATA Power + 1*Power_CON	1*DC_IN		
	LAN	/	1*RJ45 (GLAN)		
	Storage	1*SATA + 1*eMMC	/		
	FAN	1*CPU/System FAN	/		
	Others	1*F_Panel	/		
	Expasion	1*M.2 2280 SATA (SSD)			

Micro ATX

H61M1

MP



236×202mm

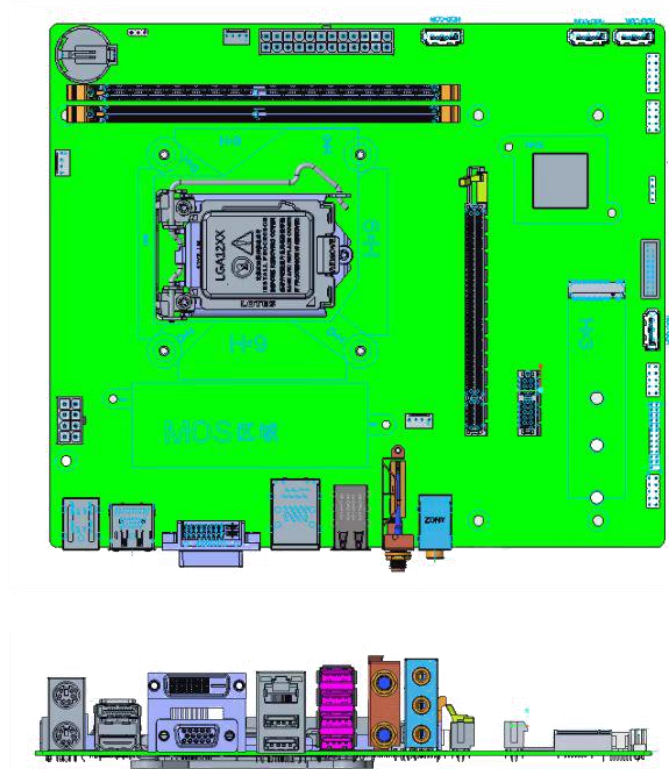
Specification

CPU	Intel Alder Lake-S	
Chipset	H610/Q670	
Memory	2*DDR4 U-DIMM, 3200MHz, Up to 64G	
WiFi	NA	
Power	ATX Power	
OS	Windows 11(64bit), Windows 10, Linux	
	Internal I/O	Rear I/O
Voice	1*Front_Audio	1*LINE_OUT+LINE_IN+MIC_IN
USB	3*USB2.0 + 2*USB3.2 Gen1	2*USB3.2 Gen1 + 2*USB2.0
Display	/	2*HDMI 1.4 + 1*DP
Power	4*SATA Power+ (24+8)ATX Power	/
LAN	/	1*RJ45 (GLAN)
Storage	4*SATA	/
FAN	1*CPU/2*System FAN	/
Others	1*F_Panel	1*PS2 (2in1)
Expasion	1*M.2 2242/2280 PCIe3.0×4 (SSD)	
	1*PCIe×16 + 2*PCIe×1	

Micro ATX

H51M3

Developing



235*200mm

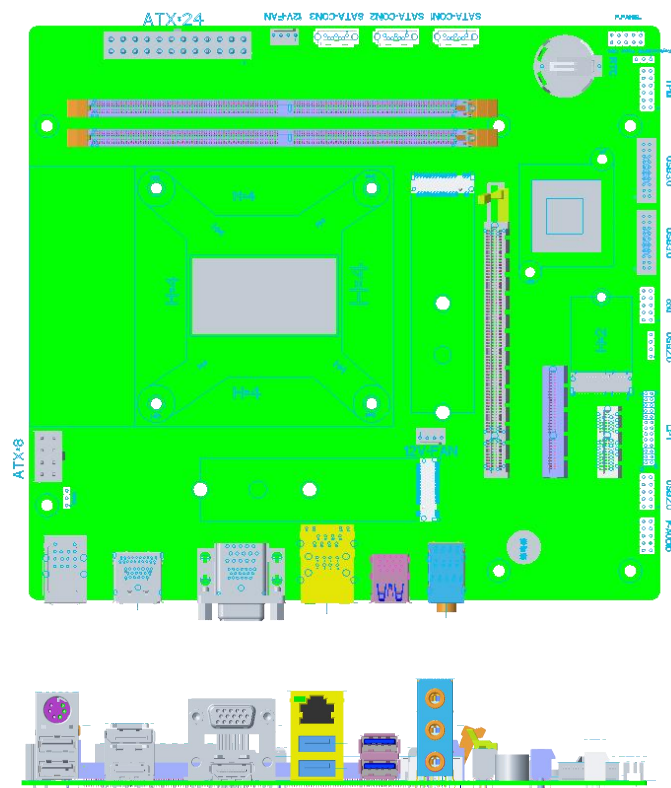
Specification

CPU	Intel Alder Lake-P	
Memory	2*DDR4 SO-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB2.0	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Audio Combo
USB	2*USB2.0	2*USB2.0 + 2*USB3.2 Gen1
Display	1*LVDS + 1*eDP + 1*VGA	1*HDMI 1.4
Power	1*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	1*SATA + 1*UFS2.1	/
FAN	1*CPU/System FAN	/
Others	1*F_Panel	/
Expasion	1*M.2 2280 PCIe4.0×4 (SSD)	

Micro ATX

TGHM1

Developing



244*244mm

Specification

CPU	Intel Tiger Lake-H45	
Chipset	HM570	
Memory	2*DDR4 U-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB2.0	
Power	ATX Power	
OS	Windows11 (64bit)	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*LINE_OUT+LINE_IN+MIC_IN
USB	4*USB2.0 + 4*USB3.2Gen1	4*USB2.0 + 2*USB3.2 Gen1
Display	1*LVDS + 1*eDP + 1*DP	1*HDMI 1.4 + 1*VGA + 1*DP + 1*DVI-D
Power	3*SATA Power+(8+24)ATX Power	/
LAN	/	1*RJ45 (GLAN)
Storage	3*SATA	/
FAN	1*CPU + 1*System FAN	/
Others	1*COM + 1*LPT+ 1*Case Open Detection	1*PS2(2in1)
Expasion	2*M.2 2242/2280 PCIe×4+SATA	
	1*PCIe×16 + 1*PCIe×4 + 1*PCIe×1	

OPS-C

CSO1G

MP



CSO1G Specification

CPU	Intel Comet Lake-S (65W)
Chipset	H410/B460
DGPU	MXM Grphic card (support up to 75W)
Memory	2*DDR4 SO-DIMM, 2666MHz,Up to 64GB
Storage	1*M.2 2280 SATA/ PCIe SSD
	1*2.5 inch SATA HDD
WiFi/BT	1*M.2 2230 PCIe
Watchdog	Interrupt, system reset/225 level timing interval
vPro	NA
Size	195mm x 180mm x 30mm
Power	12-19V DC IN
OS	Windows/Linux
Expansion	1 x M.2 2230 PCIEX1 (Wifi)
	1X M.2 2280 SATA& NVME (swithc by BOM option) (SSD)

Rear I/O	1*DC_Jack	
	1*OPS Interface (80Pin OPS-C standard definition interface) (HDMI 2.0, DP 1.2)	
Front I/O	Display	1*DP 1.2 + 1*HDMI 1.4
	USB	3*USB 2.0 + 3*USB3.2 Gen1
	Audio	1*LINE_OUT + 1*MIC_IN
	LAN	1*RJ45(GLAN)
	COM	1*COM (Option)
	Wifi	2*Atana Connector
	Button	1*Reset + 1*Clear COMS + 1*Recover +1*Power Button
	LED	1*Power LED + 1*HDD/SSD LED

OPS-C		H61O2	Developing	CSO1G Specification	
Rear I/O	1*DC_Jack			CPU	Intel Alder Lake-S (65W)
	1*OPS Interface (80Pin OPS-C standard definition interface) (HDMI2.0 support 4K@60Hz, DP1.4 support 8K@60Hz)			Chipset	H610/ B660/ Q670
	1*Micro SIM			Memory	2*DDR4 SO-DIMM, 3200MHz,Up to 64GB
Front I/O	Display	1*HDMI 1.4 (Max4096x2160@30Hz)		Storage	1*M.2 2280 PCIE 3.0 X4 + SATA SSD
	USB	1*USB 2.0 + 3*USB3.2 Gen1 + 1*USB3.2 Gen1 Type-C (DP1.2/ Data/ 15W PD)			1*M.2 2280 PCIE 4.0 X4 SSD
	Audio	1*LINE_OUT + 1*MIC_IN			1*2.5inch SATA HDD
	LAN	1*RJ45(GLAN)		WiFi/BT	1*M.2 2230 PCIe+CNVi
	COM	1*COM (Option)		4G	1*M.2 3042 4G module
	Wifi	2*Atana Connector		Watchdog	Support
	Button	1*Reset +1*Clear COMS(option) +1*Recover +1*Power Button		vPro	Option
	LED	1*Power LED + 1*HDD/SSD LED		Size	195 x 180 x 30 mm
			Power	12-19V DC IN	
			OS	Windows/Linux	
			Expansion	1*M.2 2230 PCIe+CNVi	
				1*M.2 3042 4G module	
				1*M.2 2280 PCIE 3.0 X4 + SATA SSD	
				1*M.2 2280 PCIE 4.0 X4 SSD	

OPS

TGUO1

Developing



Rear I/O	1*DC_Jack	
	1*OPS Interface (80Pin OPS-C standard definition interface) (HDMI2.0 support 4096 x 2160@60Hz, DP1.4 support 5K@60Hz)	
	1*Micro SIM	
Front I/O	Display	1*HDMI 1.4
	USB	2*USB 2.0 + 2*USB3.2 Gen2 + 1*USB3.2 Gen1 Type-C (DP1.2/ Data/ 15W PD)
	Audio	1*LINE_OUT + 1*MIC_IN
	LAN	1*RJ45(GLAN)
	COM	1*RS232, DB9 (Option)
	Wifi	2*Atana Connector
	Button	1*Reset + 1*Power Button
	LED	1*Power LED + 1*HDD/SSD LED

CSO1G Specification

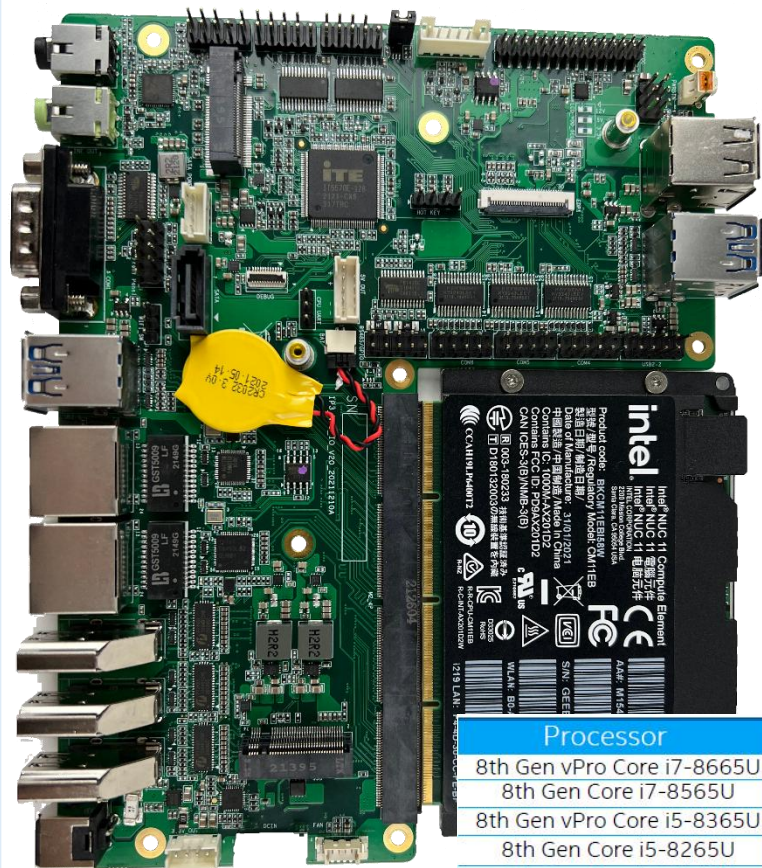
CPU	Intel Tiger Lake-UP3/H35 (35W)
Memory	2*DDR4 SO-DIMM, 3200MHz,Up to 64GB
Storage	1*M.2 2280 PCIE 4.0 X4 SSD
	1*M.2 2242 SATA SSD
WiFi/BT	1*M.2 2230 PCIe+USB+CNVi
5G	1*M.2 3052 PCIe+USB 5G module
GPS	Support
Watchdog	Support
TPM	Support TPM2.0
vPro	Option
Size	119 x 180 x 30 mm
Power	12-19V DC IN
OS	Windows/Linux
Expansion	1 x M.2 2230 PCIE+USB (Wifi)
	1 x M.2 23052 PCIE+USB (5G)
	1*M.2 2280 PCIE 4.0 X4 (SSD)
	1*M.2 2242 SATA (SSD)

OPS		TGHO2G		Developing		CSO1G Specification		
						CPU	Intel Tiger Lake-H45 (45W)	
						Chipset	HM570/QM 580	
						DGPU	MXM Grphic card (support up to 75W)	
						Memory	2*DDR4 SO-DIMM, 3200MHz,Up to 64GB	
						Storage	1*M.2 2242/2260/2280 PCIE 4.0 X4 SSD 1*M.2 2242/2260/2280 PCIE/SATA SSD	
							1*2.5" SATA HDD/SSD	
						WiFi/BT	1*M.2 2230 PCIe+USB+CNVi	
						TPM	Support TPM2.0	
						vPro	Option	
						Size	195 x 180 x 30 mm	
						Power	12-19V DC IN	
						OS	Windows/Linux	
Rear I/O	1*DC_Jack					Expansion	1 x M.2 2230 PCIE+USB (Wifi)	
	1*OPS Interface (80Pin OPS-C standard definition interface) (HDMI from dGPU/ iGPU , MXM Port B : HDMI , Port A DP)						1*M.2 2242/2260/2280 PCIE/SATA (SSD)	
Front I/O	Display	1*HDMI 1.4 + 1*DP 1.2a					1*M.2 2242/2260/2280 PCIE 4.0 X4 (SSD)	
	USB	2*USB 2.0 + 4*USB3.2 Gen2 + 1*USB3.2 Gen1 Type-C (Data/ 15W PD)					1*M.2 2242/2260/2280 PCIE 4.0 X4 (SSD)	
	Audio	1*LINE_OUT + 1*MIC_IN					1*MXM Slot	
	LAN	1*RJ45(GLAN)						
	COM	1*RS232, DB9 (Option)						
	Wifi	2*Atana Connector						
	Button	1*Reset + 1*Power Button						
LED	1*Power LED + 1*HDD/SSD LED							

Element-U

NC3

MP



170*133.5*25mm

Processor	RAM	Storage
8th Gen vPro Core i7-8665U	8GB LPDDR3	None
8th Gen Core i7-8565U	8GB LPDDR3	None
8th Gen vPro Core i5-8365U	8GB LPDDR3	None
8th Gen Core i5-8265U	8GB LPDDR3	None
8th Gen Core i3-8145U	4GB LPDDR3	None
Pentium Gold 5405U	4GB LPDDR3	64GB eMMC
Celeron 4305U	4GB LPDDR3	64GB eMMC
11th Gen vPro Core i7-1185G7	16GB LPDDR4X	None
11th Gen Core i7-1165G7	16GB LPDDR4X	
11th Gen vPro Core i5-1145G7	8GB LPDDR4X	
11th Gen Core i5-1135G7	8GB LPDDR4X	
11th Gen Core i3-1115G4	8GB LPDDR4X	
Celeron 6305	4GB LPDDR4X	

Specification

CPU	Intel WHL/TGL-U	
Memory	4G/8G/16G(On Module)	
WiFi	Wi-Fi 6 AX201(TGL-U Module)/AC 9560(WHL-U Module)	
Power	12-24V DC IN	
OS	Windows/Linux	
Expasion	1* PCIE X4/SATA M.2 (SATA option) + 1* PCIE X4 M.2	
	2* USB2.0	
	5* DB9 COM + 1* RS485 +1* GPIO	
	1* Front Panel	
Rear I/O	1* LVDS/EDP + 1* LCD BL + 2* KEY	
	1* DC_IN	
	3* HDMI 2.0(4K resolution)	
	2* RJ45(1G + 2.5G)	
	2* USB3.0	
	1* DB9 COM	
	2* Audio(MIC + Lineout)	
Front I/O	USB	2* USB3.0 + 2* USB2.0
	Button	1* power Button

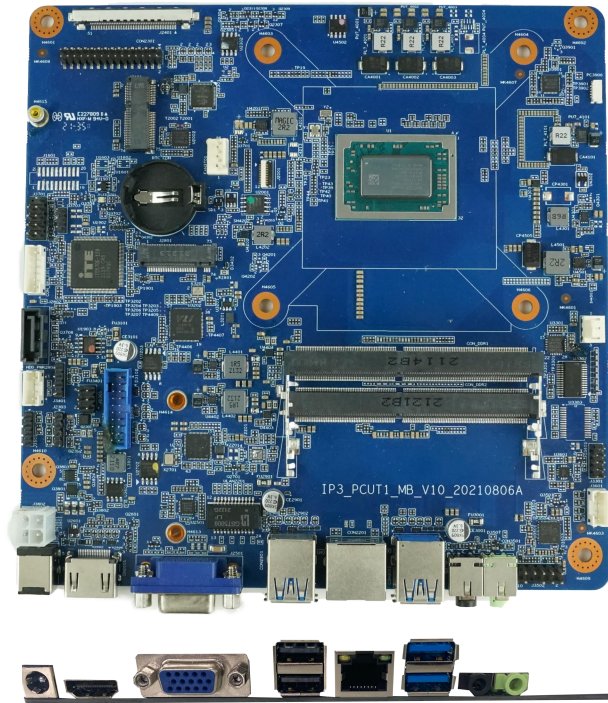
Element-U	NC3A	Developing	Specification																																							
170*133.5*25mm	<table><tr><th>Processor</th><th>RAM</th><th>Storage</th></tr><tr><td>8th Gen vPro Core i7-8665U</td><td>8GB LPDDR3</td><td>None</td></tr><tr><td>8th Gen Core i7-8565U</td><td>8GB LPDDR3</td><td>None</td></tr><tr><td>8th Gen vPro Core i5-8365U</td><td>8GB LPDDR3</td><td>None</td></tr><tr><td>8th Gen Core i5-8265U</td><td>8GB LPDDR3</td><td>None</td></tr><tr><td>8th Gen Core i3-8145U</td><td>4GB LPDDR3</td><td>None</td></tr><tr><td>Pentium Gold 5405U</td><td>4GB LPDDR3</td><td>64GB eMMC</td></tr><tr><td>Celeron 4305U</td><td>4GB LPDDR3</td><td>64GB eMMC</td></tr><tr><td>11th Gen vPro Core i7-1185G7</td><td>16GB LPDDR4X</td><td rowspan="5">None</td></tr><tr><td>11th Gen Core i7-1165G7</td><td>16GB LPDDR4X</td></tr><tr><td>11th Gen vPro Core i5-1145G7</td><td>8GB LPDDR4X</td></tr><tr><td>11th Gen Core i5-1135G7</td><td>8GB LPDDR4X</td></tr><tr><td>11th Gen Core i3-1115G4</td><td>8GB LPDDR4X</td></tr><tr><td></td><td>Celeron 6305</td><td>4GB LPDDR4X</td></tr></table>	Processor	RAM	Storage	8th Gen vPro Core i7-8665U	8GB LPDDR3	None	8th Gen Core i7-8565U	8GB LPDDR3	None	8th Gen vPro Core i5-8365U	8GB LPDDR3	None	8th Gen Core i5-8265U	8GB LPDDR3	None	8th Gen Core i3-8145U	4GB LPDDR3	None	Pentium Gold 5405U	4GB LPDDR3	64GB eMMC	Celeron 4305U	4GB LPDDR3	64GB eMMC	11 th Gen vPro Core i7-1185G7	16GB LPDDR4X	None	11 th Gen Core i7-1165G7	16GB LPDDR4X	11 th Gen vPro Core i5-1145G7	8GB LPDDR4X	11 th Gen Core i5-1135G7	8GB LPDDR4X	11 th Gen Core i3-1115G4	8GB LPDDR4X		Celeron 6305	4GB LPDDR4X	CPU	Intel WHL/TGL-U	
		Processor	RAM	Storage																																						
		8th Gen vPro Core i7-8665U	8GB LPDDR3	None																																						
		8th Gen Core i7-8565U	8GB LPDDR3	None																																						
		8th Gen vPro Core i5-8365U	8GB LPDDR3	None																																						
		8th Gen Core i5-8265U	8GB LPDDR3	None																																						
		8th Gen Core i3-8145U	4GB LPDDR3	None																																						
		Pentium Gold 5405U	4GB LPDDR3	64GB eMMC																																						
		Celeron 4305U	4GB LPDDR3	64GB eMMC																																						
		11 th Gen vPro Core i7-1185G7	16GB LPDDR4X	None																																						
		11 th Gen Core i7-1165G7	16GB LPDDR4X																																							
		11 th Gen vPro Core i5-1145G7	8GB LPDDR4X																																							
		11 th Gen Core i5-1135G7	8GB LPDDR4X																																							
		11 th Gen Core i3-1115G4	8GB LPDDR4X																																							
			Celeron 6305	4GB LPDDR4X																																						
		Memory	4G/8G/16G(On Module)																																							
		WiFi	Wi-Fi 6 AX201(TGL-U Module)/AC 9560(WHL-U Module)																																							
		Power	12-24V DC IN																																							
		OS	Windows/Linux																																							
		Expasion	1* PCIE X4 M.2 + 1* PCIE X4 M.2 + 1* SATA																																							
2* USB2.0																																										
5* DB9 COM + 1* RS485 +1* GPIO																																										
1* Front Panel																																										
1* LVDS/EDP + 1* LCD BL + 2* KEY																																										
Rear I/O	1* DC_IN																																									
	2* HDMI 2.0(4K resolution)																																									
	2* RJ45																																									
	2* USB3.0																																									
	1* DB9 COM																																									
	2* Audio(MIC + Lineout)																																									
	Front I/O	USB	2* USB3.0 + 2* USB2.0																																							
Button		1* power Button																																								

Element-U		NC3B	Developing	Specification					
170*133.5*25mm				CPU	Intel WHL/TGL-U				
				Memory	4G/8G/16G(On Module)				
				WiFi	Wi-Fi 6 AX201(TGL-U Module)/AC 9560(WHL-U Module)				
				Power	12-24V DC IN				
				OS	Windows/Linux				
				Expasion	1* PCIE X4/SATA M.2 + 1* PCIE X4 M.2				
					2* USB2.0				
					5* DB9 COM + 1* RS485 +1* GPIO				
					1* Front Panel				
					1* LVDS/EDP + 1* LCD BL + 2* KEY				
				Rear I/O	1* DC_IN				
					4* HDMI 2.0(4K resolution)				
					2* RJ45				
					2* USB3.0				
					1* DB9 COM				
					2* Audio(MIC + Lineout)				
				Front I/O	USB	2* USB3.0 + 2* USB2.0			
					Button	1* power Button			
				</					

Thin Mini ITX

PCUT1

MP



170*170mm

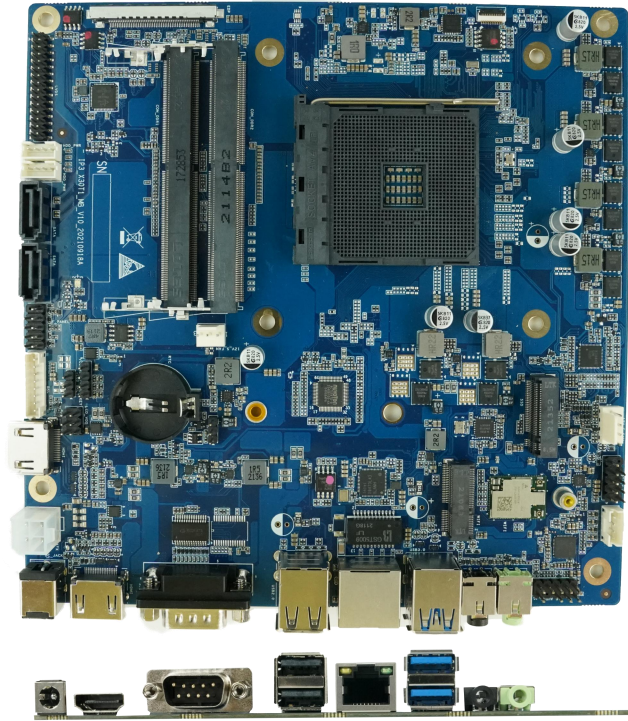
Specification

CPU	AMD FP5, Picasso-U	
Memory	2*DDR4 SO-DIMM	
WiFi	M.2 2230 PCIe&USB2.0 (Wifi+BT)	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*LINE_OUT + 1*MIC_IN
USB	1*USB2.0 + 1*USB3.2 Gen1	4*USB3.2 Gen1
Display	1*DP + 1*eDP + 1*LVDS	1*VGA + 1*HDMI 2.0
Power	2*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU/System FAN	/
COM	1*COM	/
F_Panel	1*Standard F_Panel	/
Expasion	1*M.2 2280 PCIe×4 (SSD)	

Thin Mini ITX

X30T1

Developing



170*170mm

Specification

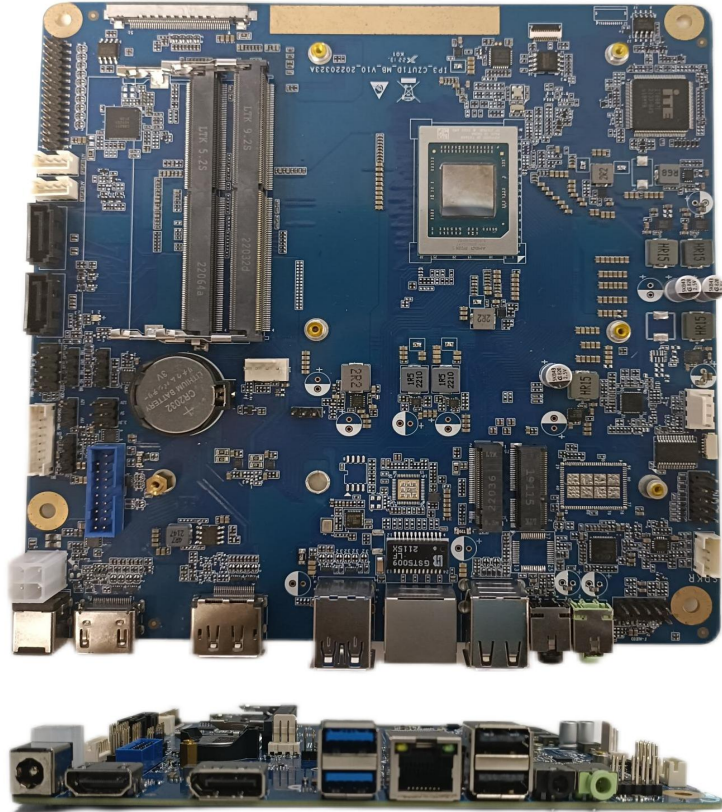
CPU	AMD AM4, Ryzen 1000, 2000, 3000, 4000, 5000 G-Series APU	
Chipset	X300/A300	
Memory	2*DDR4 U-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe&USB2.0 (Wifi+BT)	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Head Phone + 1*MIC_IN
USB	2*USB2.0 + 1*USB3.2 Gen1	2*USB2.0 + 2* USB3.2 Gen1
Display	1*DP + 1*LVDS	1*VGA + 1*HDMI 1.4
Power	2*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU/System FAN	/
F_Panel	1*Standard F_Panel	/
Expasion	1*M.2 2280 PCIe×4&SATA (SSD)	

Thin Mini ITX	CZUT1	MP	Specification		
170*170mm			CPU	Renoir-U/H,Cezanne-U/H,Lucienne-U,Barcelo-U, Up to 45W	
			Memory	2*DDR4 SO-DIMM	
			WiFi	M.2 2230 PCIe&USB2.0 (Wifi+BT)	
			Power	19V DC IN	
			OS	Windows 10(64bit)/Windows 11(64bit)	
				Internal I/O	Rear I/O
			Voice	1*Audio + 1*Speaker	1*Earhone + 1*MIC_IN
			USB	5*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 2* USB3.2 Gen1
			Display	1*LVDS	1*HDMI 1.4 + 1*VGA
			Power	2*SATA Power + 1*Power_CON	1*DC_IN
			LAN	/	1*RJ45 (GLAN)
			Storage	2*SATA	/
			FAN	1*CPU/System FAN	/
			Others	1*COM	/
			Expasion	1*M.2 2280 PCIe×4&SATA (SSD)	

Thin Mini ITX

CZUT1D

MP



170*170mm

Specification

CPU	Renoir-U/H,Cezanne-U/H,Lucienne-U,Barcelo-U, Up to 45W	
Memory	2*DDR4 SO-DIMM	
WiFi	M.2 2230 PCIe&USB2.0 (Wifi+BT)	
Power	19V DC IN	
OS	Windows 10(64bit)	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Earhone + 1*MIC_IN
USB	5*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 2* USB3.2 Gen1
Display	1*LVDS	1*HDMI 1.4 + 1*DP
Power	2*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU/System FAN	/
Others	1*COM	/
Expasion	1*M.2 2280 PCIe×4&SATA (SSD)	

Thin Mini ITX

CZUT1C

Developing

170*170mm

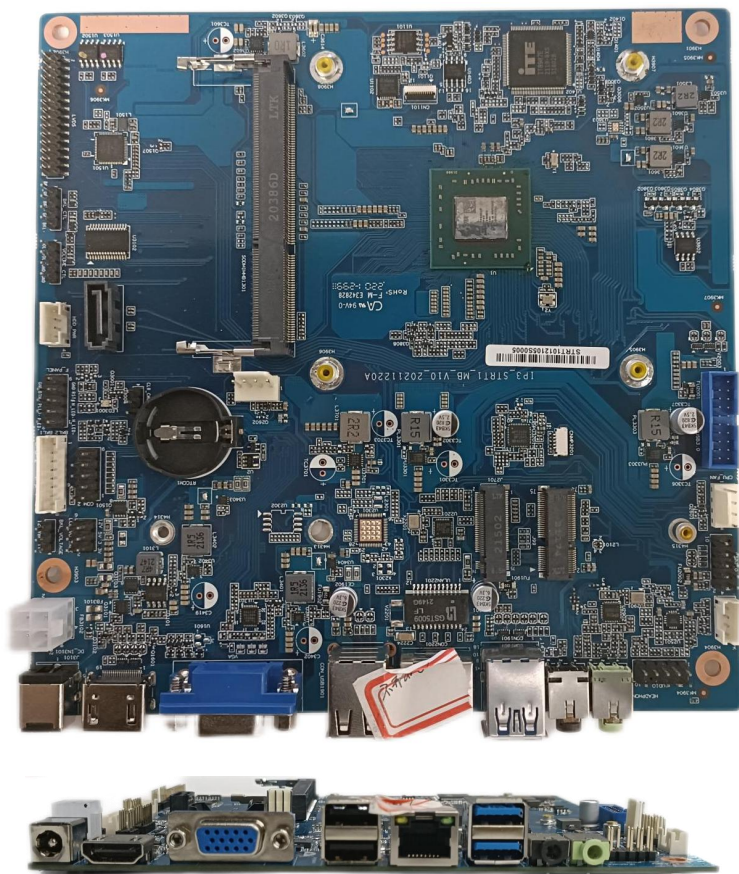
Specification

CPU	Renoir-U/H,Cezanne-U/H,Lucienne-U,Barcelo-U, Up to 45W	
Memory	2*DDR4 SO-DIMM	
WiFi	M.2 2230 PCIe&USB2.0 (Wifi+BT)	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Earhone + 1*MIC_IN
USB	1*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 1* USB3.2 Gen1 + 1* USB3.2 Gen1 Type-C
Display	1*LVDS + 1*eDP + 1*VGA	1*HDMI 1.4 + 1*COM
Power	2*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU/System FAN	/
Expasion	1*M.2 2280 PCIe×4&SATA (SSD)	

Thin Mini ITX

STR1

MP



170*170mm

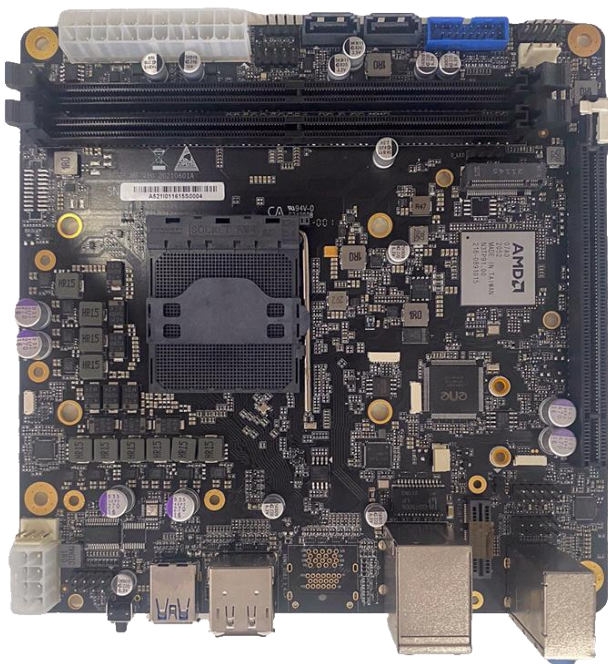
Specification

CPU	Stoney Ridge, 10W	
Memory	1*DDR3/DDR3L SO-DIMM	
WiFi	M.2 2230 PCIe&USB2.0 (Wifi+BT)	
Power	19V DC IN	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Head Phone + 1*MIC_IN
USB	2*USB2.0 + 1*USB3.2 Gen1	2*USB2.0 + 2* USB3.2 Gen1
Display	1*LVDS + 1*eDP + 1*DP (Option)	1*HDMI 1.4
Power	1*SATA Power + 1*Power_CON	1*DC_IN
LAN	/	1*RJ45 (GLAN)
Storage	1*SATA	/
FAN	1*CPU/System FAN	/
Others	1*Standard F_Panel	1*COM
Expasion	1*M.2 2280 SATA (SSD)	

Mini ITX

A52I1

Developing



170*170mm

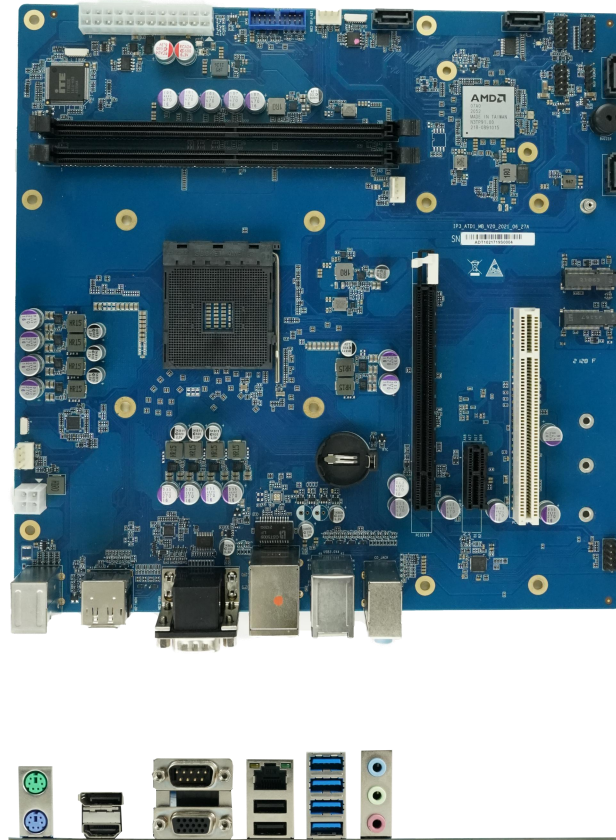
Specification

CPU	AMD AM4, Ryzen 1000, 2000, 3000, 4000, 5000 G-Series APU	
Chipset	A520/B550	
Memory	2*DDR4 U-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe (Wifi+BT)	
Power	ATX Power	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio + 1*Speaker	1*Audio (立式3孔)
USB	1*USB2.0 + 1*USB3.2 Gen1	2*USB3.2 Gen1
Display	/	1*DP + 1*HDMI 1.4
Power	1*ATX Power + 1*ATX DC_IN	/
LAN	/	1*RJ45 (GLAN)
Storage	2*SATA	/
FAN	1*CPU FAN + 2*System FAN	/
Light	1*D LED	/
Others	1*F_Panel + 1*COM + 1*TPM	1*Power Button
Expasion	1*PCIe×16 + 1*M.2 2280 PCIe×4 (SSD)	

Micro ATX

ATD1

MP



244*244mm

Specification

CPU	AMD AM4, Ryzen 2000, 3000, 4000, 5000 G-Series APU	
Chipset	B550	
Memory	2*DDR4 U-DIMM, Up to 64G	
WiFi	M.2 2230 PCIe (Wifi+BT)	
Power	ATX Power	
OS	Windows	
	Internal I/O	Rear I/O
Voice	1*Audio	1*Audio (立式3孔)
USB	3*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 4*USB3.2 Gen1
Display	/	1*DP + 1*VGA + 1*HDMI 1.4
LAN	/	1*RJ45(GLAN)
Power	1*(24+4)ATX Power	/
Storage	4*SATA	/
FAN	3*CPU FAN	/
Others	/	1*COM + 2*PS/2
Expasion	1*PCI + 1*PCIe×1 + 1*PCIe×16	
	1*M.2 2240/2260/2280 PCIe&SATA (SSD)	

Micro ATX	A52M2	Developing	Specification		
			CPU	AMD AM4, Ryzen 2000, 3000, 4000, 5000 G-Series APU	
			Chipset	A520/B550	
			Memory	2*DDR4 U-DIMM, Up to 64G	
			WiFi	M.2 2230 PCIe&USB (Wifi+BT)	
			Power	ATX Power	
			OS	Windows, Linux	
				Internal I/O	Rear I/O
			Voice	1*Audio	1*Audio (立式3孔)
			USB	2*USB2.0 + 2*USB3.2 Gen1	2*USB2.0 + 4*USB3.2 Gen1
			Display	/	1*DP + 1*VGA + 1*HDMI 1.4
			LAN	/	1*RJ45(GLAN)
			Power	1*(24+8)ATX Power	/
			Storage	4*SATA	/
			FAN	1*CPU FAN + 1*System FAN	/
			Others	1*Open Chassis Detection	1*COM + 1*PS/2
			Expasion	2*PCIe×1 + 1*PCIe×16	
				1*M.2 2240/2260/2280 PCIe4.0×4&SATA (SSD)	

03 Tooling Catalog

Product Series

AIO

Thin Mini ITX



BOX

Thin Mini ITX & Mini ITX



Mini Desktop

Micro ATX



Desktop

Micro ATX & ATX



21.45"

MP



21.45"

xA170-2145P-X31x

camera (pop-up)

battery (optional)

ultra-thin

side ports

fixed / liftable stand

exclusive South America, Africa

21.5"

MP



21.5" / 23.8"

xA170-215P-H01x

camera (pop-up)

ODD

vesa mount

fingerprint support

fixed / liftable stand

MP



21.5" / 23.8"

xA170-238P-S01L

vesa mount

rotatable/liftable stand

MP



21.5" / 23.8"

xA170-215P-S02F

camera (bottom, optional)

side ports

fixed stand

23.8"

MP



23.8"
xA170-238P-T01F
camera (pop-up)
vesa mount
fixed stand

MP



23.8"
xA170-238P-B01x
camera privacy switch (bottom)
ODD, Touchpanel support
fixed / liftable stand

MP



21.5" / 23.8"
xA170-238P-S01L
vesa mount
rotatable/liftable stand

MP



21.5" / 23.8"
xA170-228P-S02F
camera (bottom, optional)
side ports
fixed stand

MP



21.45" / 23.8"
xA170-215P-H01x
camera (pop-up)
ODD
vesa mount
fingerprint support
fixed / liftable stand

22"QA



23.8"
xA170-238P-T31x
camera (top, optional)
ODD
vesa mount

22"QA



21.5" / 23.8"
xA170-238P-S31x
camera (pop-up)
ODD
vesa mount

27"

MP



27"

xA170-270P-T02x

Changable base

xA170

2145P-X31x

MP

X31



Features :

21.45"
Pop-up camera
Built-in battery
Vesa

Specification

LCD	21.45" FHD 60Hz, 16:9		
Tilt adjust	-5°/+21°		
Motherboard	ADPT2/GLKT2		
CPU TDP	≤28W		
Material	Plastic		
Rear I/O	1*DC JACK		
	4*USB3.2 Gen1 Type-A		
	2*USB2.0 Type-A		
	1*RJ45 (GLAN)		
	1*HDMI 1.4		
	1*Audio Combo		
	1*Micro SD		
	Support		
Features	Camera	Vesa	TP
	Y	Y	/

xA170

215P/238P-H01x

MP

H01



Features :

ODD
Vesa
Changeable Base
Pop-up Camera
Fingerprint



Liftable Base



Fixed Base

Specification

LCD	21.5"/23.8" FHD 60Hz,16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤65W		
Material	Plastic		
Weight	7.5Kg		
Packing Size	600*205*434mm		
I/O Ports	1*DC JACK		
	5*USB Type-A		
	1*USB Type-C		
	1*SD Card		
	1*ODD		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
Features	1*Earphone + 1*MIC_IN		
	Camera	Vesa	TP
	Y	Y	Y

xA170

215P/238P-S01L

MP



Features :

Rotatable
Liftable



S01

Specification

LCD	21.5"/23.8" FHD 60Hz, 16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤28W		
Material	Plastic		
Weight	7.5Kg		
Packing Size	600*205*434mm		
I/O Ports	1*DC JACK		
	4*USB Type-A+2 USB 2.0		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
Features	Camera	Vesa	TP
	/	Y	/

xA170

215P-S02F

MP

S02



Features :

Privacy Camera Shutter

Specification

LCD	21.5"/23.8" FHD 60Hz, 16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤65W		
Material	Plastic		
Weight	7.5Kg		
Packing Size	600*205*434mm		
I/O Ports	1*DC JACK		
	4*USB Type-A+2 USB 2.0		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
Features	Camera	Vesa	TP
	Y	Y	/

xA170

238P-T01F

MP

T01 Specification



Features :

Pop-up camera

Specification

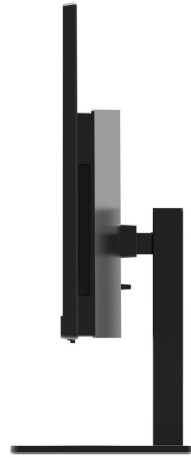
LCD	23.8" FHD 60Hz, 16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤65W		
Material	Plastic		
Weight	7.8Kg		
Packing Size	610*175*470mm		
I/O Ports	1*DC JACK		
	4*USB Type-A+2*USB 2.0		
	1*SD Card		
	1*ODD		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
Features	Camera	Vesa	TP
	Y	Y	Y

xA170

238P-B01x

MP

B01



Features :

ODD
Vesa
Changeable Base
Privacy camera shutter



Liftable Base



Fixed Base

Specification

LCD	23.8" FHD 60Hz, 16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤65W		
Material	Plastic		
Weight	6Kg		
Packing Size	600*210*535mm		
I/O Ports	1*DC JACK		
	6*USB Type-A		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
	1*ODD (Option)		
Features	1*SD Card		
	Camera	Vesa	TP
	Y	Y	Y

xA170

270P-T02x

MP



Features :

Changeable stand

T02

Specification

LCD	27" FHD 60Hz, 16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤65W		
Material	Plastic		
Weight	TBD		
Packing Size	TBD		
I/O Ports	1*DC JACK		
	4*USB Type-A+2 USB 2.0		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
Features	Camera	Vesa	TP
	/	/	/

2 Small Form Factor Catalog — Thin Mini ITX & Mini ITX



216*227*72mm
1*2.5inch HDD
Front I/O:
1*HeadPhone+1*Speaker
2*USB Type-A



188*184*55mm
1*2.5inch HDD
Front I/O:
1*HeadPhone+1*Speaker
2*USB Type-A



197*193*45mm
1*2.5inch HDD
Front I/O:
1*HeadPhone+1*Speaker
2*USB Type-A



205*190*60mm
1*2.5inch HDD
Front I/O:
1*HeadPhone+1*Speaker
3*USB Type-A



214*200*75mm
2*2.5inch HDD
Front I/O:
1*HeadPhone+1*Speaker
2*USB Type-A



210*200*55mm
1*2.5inch HDD
Front I/O:
1*HeadPhone+1*Speaker
2*USB Type-A



212*200*55mm
1*2.5inch HDD
Front I/O:
1*HeadPhone+1*Speaker
2*USB Type-A



200*200*65mm
1*2.5/3.5inch HDD
Front I/O:
1*USB Type-A



198*185*45mm
NO HDD
Front I/O:
N/A



198*185*45mm
1*2.5inch HDD
Front I/O:
1*HeadPhone+1*Speaker
2*USB Type-A

Thin Mini ITX & Mini ITX

ID1



Specification

Motherboard	Thin Mini ITX & Mini ITX
CPU TDP	≤65W
HDD	1*2.5inch HDD
Material	Plastic
Weight	1.5KG
Dimension	216*227*72mm
Power	19/3.42 DC_IN
Rear I/O	1*DC JACK
	4*USB Type-A
	1*RJ45
	1*HDMI
	1*VGA/COM
	1*LINE_OUT + 1*MIC_IN
Front I/O	1*Head Phone + 1*Speaker
	2*USB Type-A
	1*Power Button

Thin Mini ITX & Mini ITX

ID2



Specification

Motherboard	Thin Mini ITX & Mini ITX
CPU TDP	≤65W
HDD	1*2.5inch HDD
Material	Plastic
Weight	1.2KG
Dimension	188*184*55mm
Power	19/3.42 DC_IN
Rear I/O	1*DC JACK
	4*USB Type-A
	1*RJ45
	1*HDMI
	1*VGA/COM
	1*LINE_OUT + 1*MIC_IN
Front I/O	1*Head Phone + 1*Speaker
	2*USB Type-A
	1*Power Button

Thin Mini ITX & Mini ITX

ID3



Specification

Motherboard	Thin Mini ITX & Mini ITX
CPU TDP	≤65W
HDD	1*2.5inch HDD
Material	Plastic
Weight	1.2KG
Dimension	197*193*45mm
Power	19/3.42 DC_IN
Rear I/O	1*DC JACK
	4*USB Type-A
	1*RJ45
	1*HDMI
	1*VGA/COM
	1*LINE_OUT + 1*MIC_IN
Front I/O	1*Head Phone + 1*Speaker
	2*USB Type-A
	1*Power Button

Thin Mini ITX & Mini ITX

ID4



Specification

Motherboard	Thin Mini ITX & Mini ITX
CPU TDP	≤65W
HDD	1*2.5inch HDD
Material	Plastic
Weight	1.2KG
Dimension	205*190*60mm
Power	19/3.42 DC_IN
Rear I/O	1*DC JACK
	4*USB Type-A
	1*RJ45
	1*HDMI
	1*VGA/COM
	1*LINE_OUT + 1*MIC_IN
Front I/O	1*Head Phone + 1*Speaker
	3*USB Type-A
	1*Power Button

Thin Mini ITX & Mini ITX

ID5



Specification

Motherboard	Thin Mini ITX & Mini ITX
CPU TDP	≤65W
HDD	2*2.5inch HDD
Material	0.8MM SECC
Weight	1.2KG
Dimension	214*200*75mm
Power	19/3.42 DC_IN
Rear I/O	1*DC JACK
	4*USB Type-A
	1*RJ45
	1*HDMI
	1*VGA/COM
	1*LINE_OUT + 1*MIC_IN
Front I/O	1*Head Phone + 1*Speaker
	2*USB Type-A
	1*Power Button

Thin Mini ITX & Mini ITX

ID6



Specification

Motherboard	Thin Mini ITX & Mini ITX
CPU TDP	≤65W
HDD	1*2.5inch HDD
Material	0.6mm SGCC
Weight	1.2KG
Dimension	210*200*55mm
Power	19/3.42 DC_IN
Rear I/O	1*DC JACK
	4*USB Type-A
	1*RJ45
	1*HDMI
	1*VGA/COM
	1*LINE_OUT + 1*MIC_IN
Front I/O	1*Head Phone + 1*Speaker
	2*USB Type-A
	1*Power Button

Thin Mini ITX & Mini ITX

ID7



Specification

Motherboard	Thin Mini ITX & Mini ITX
CPU TDP	≤65W
HDD	1*2.5inch HDD
Material	Metal
Weight	1.2KG
Dimension	212*200*55mm
Power	19/3.42 DC_IN
Rear I/O	1*DC JACK
	4*USB Type-A
	1*RJ45
	1*HDMI
	1*VGA/COM
	1*LINE_OUT + 1*MIC_IN
Front I/O	1*Head Phone + 1*Speaker
	2*USB Type-A
	1*Power Button

Thin Mini ITX & Mini ITX

ID8



Specification

Motherboard	Thin Mini ITX & Mini ITX
CPU TDP	≤65W
HDD	1*2.5/3.5inch HDD
Material	0.8mm SECC
Weight	1.2KG
Dimension	200*200*65mm
Power	19/3.42 DC_IN
Rear I/O	1*DC JACK
	4*USB Type-A
	1*RJ45
	1*HDMI
	1*VGA/COM
	1*LINE_OUT + 1*MIC_IN
Front I/O	1*USB Type-A
	1*Power Button

Thin Mini ITX & Mini ITX

ID9



Specification

Motherboard	Thin Mini ITX & Mini ITX
CPU TDP	≤65W
HDD	N/A
Material	0.8mm SECC
Weight	1.2KG
Dimension	198*185*45mm
Power	19/3.42 DC_IN
Rear I/O	1*DC JACK
	4*USB Type-A
	1*RJ45
	1*HDMI
	1*VGA/COM
	1*LINE_OUT + 1*MIC_IN
Front I/O	1*Power Button

Thin Mini ITX & Mini ITX

ID10



Specification

Motherboard	Thin Mini ITX & Mini ITX
CPU TDP	≤65W
HDD	1*2.5inch HDD
Material	0.8mm SECC
Weight	1.2KG
Dimension	198*185*45mm
Power	19/3.42 DC_IN
Rear I/O	1*DC JACK
	4*USB Type-A
	1*RJ45
	1*HDMI
	1*VGA/COM
	1*LINE_OUT + 1*MIC_IN
Front I/O	1*Head Phone + 1*Speaker
	2*USB Type-A
	1*Power Button

3 Mini Desktop Catalog — Micro ATX



340*92*340mm
SGCC 1.45Kg



340*92*340mm
SGCC 1.5Kg



295*92*340mm
SPCC+ABS 3.5Kg



346*93*340mm
SPCC+ARS 3.5Kg



389*102*338mm
SGCC 5.2Kg



307*175*353mm
SPCC+ARS 1.8Kg



365*144*400mm
SPCC+ARS 1.9Kg



354*190*304mm
SPCC+ARS 2.5Kg

Micro ATX

ID1



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SGCC
Weight	1.45KG
Dimension	340*92*340mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	1*USB2.0+1*USB3.2 Gen1
	1*Power Button

Micro ATX

ID2



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SGCC
Weight	1.5KG
Dimension	340*92*340mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	1*USB2.0+1*USB3.2 Gen1
	1*Power Button

Micro ATX

ID3



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 1*2.5inch HDD 1*3.5inch HDD 1*ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ABS
Weight	3.5KG
Dimension	295*92*340mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	2*USB2.0+1*USB3.2 Gen1
	1*Power Button

Micro ATX

ID4

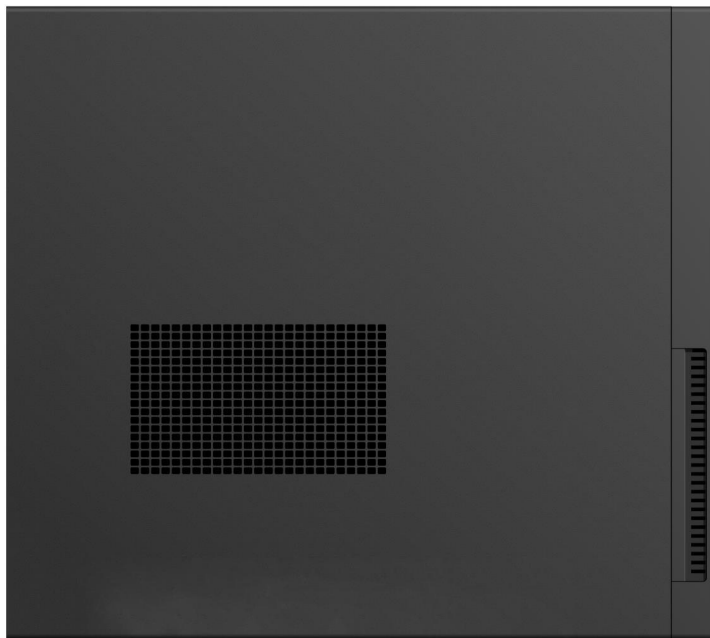


Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ARS
Weight	3.5KG
Dimension	346*93*340mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	2*USB2.0+2*USB3.2 Gen1
	1*Power Button

Micro ATX

ID5



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ARS
Weight	3.5KG
Dimension	389*102*338mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	2*USB2.0+2*USB3.2 Gen1
	1*Power Button

Micro ATX

ID6



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ARS
Weight	1.8KG
Dimension	307*175*353mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	1*USB2.0+1*USB3.2 Gen1
	1*Power Button

Micro ATX

ID7



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 2*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ARS
Weight	1.9KG
Dimension	365*144*400mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	1*USB2.0+1*USB3.2 Gen1
	1*Power Button

Micro ATX

ID8



Specification

Motherboard	Micro ATX
CPU & Chipset	Intel ADL-S + H610 (H61M1) RKL-S + H510 (H51M3) TGL-H45 + HM570 (TGHM1) AMD AM4 + B550/A520 (ATD1/A52M2) Zhaoxin KX-6000 (ZED1)
CPU TDP	≤65W
Memory	2*DDR4 U-DIMM, Up to 64GB
Storage	1*M.2 SSD(PCIe/SATA) 2*2.5inch HDD 1*3.5inch HDD 1*Slim ODD
Wireless	M.2 2230 PCIe (Wifi+BT)
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Material	SPCC+ARS
Weight	2.5KG
Dimension	354*190*304mm
Rear I/O	Follow Motherboard
Front I/O	1*Head Phone + 1*Speaker
	1*USB2.0+1*USB3.2 Gen1
	1*Power Button

ATX

ZED3-D-XXS



Calm appearance
Powerful support for extensibility
Support 4 HDDs
Support full-height discrete graphics card
Suitable for office business

Specification

Motherboard	ATX (ZED3)
CPU	Zhaoxin KX-6000, Up to 70W
Memory	4*DDR4 U-DIMM, Up to 64G
Storage	2*3.2inch HDD 1*ODD
Expansion Slot	4*PCIe Slot
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Rear I/O	1*Audio (立式3孔)
	4*USB2.0 + 2*USB3.2 Gen1
	1*DP + 1*VGA + 1*HDMI
	2*RJ45 (GLAN)
	2*COM
	2*PS/2
Front I/O	4*USB Type-A
	1*Head Phone + 1*MIC
	1*ODD
	1*Power Button

ATX

ZED3-R-BG



Standard 4U
Security door with lock
Equipped with LED indicator light alarm prompt

Specification

Motherboard	ATX (ZED3)
CPU	Zhaoxin KX-6000, Up to 70W
Memory	4*DDR4 U-DIMM, Up to 64G
Storage	2*2.5inch HDD 2*3.5inch HDD
Expasion Slot	7*PCIe Slot
Dimension	427*450*176mm
Power	ATX Power
OS	Windows/UOS/中标麒麟/中科方德
Rear I/O	1*Audio (立式3孔)
	4*USB2.0 + 2*USB3.2 Gen1
	1*DP + 1*VGA +1*HDMI
	2*RJ45 (GLAN)
	2*COM
	2*PS/2



NoteBook Roadmap & Catalog

2022 Q3
v1.0

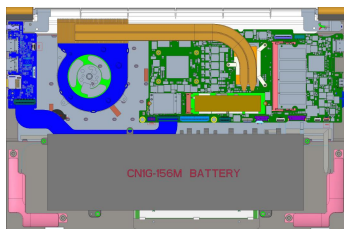
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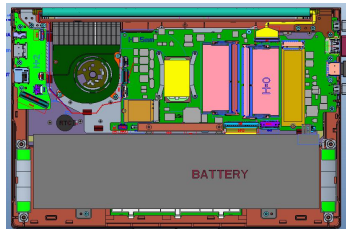
01 IP3 NoteBook Series Overview

TDP	PCBA Series	产品定位	CPU	GPU
120-165W	xN27 /xN37	Gaming	HX/H series RBL H/Phinex H	AMD:Navi23/Navi33 Intel: DG2 SKU2/SKU3
70-95W	xN32 xN37F	Light Gaming Creator Book High-end Commercial	H Series P Series	AMD:Navi 24 Intel: DG2-R SKU4/SKU5
35W-54W	xN39 xN57	High-performance Commercial (Entry DGPU)	H+iGPU U+Entry DGPU	NV:MX450 Intel: DG2 SKU5/6
15W/28W	xN50(vPro)	Thin&Light Commercial: Derivative of custom product (DN50)	U/P series	NA
6W/10W/15W	xN29 xN1G/ xN21 xN5 xN23 /30/38 xN1/ xN11 XN15 (x133)/xN10 (Y116C) XU(X133U)/X218(218)/	Consumer: xN1G&xN21 xN5 yoga Tender: ODD/VGA/HDD... xN1 (11.6"Education) Common tooling, entry level	GLK/JSL Stoneyridge/Mendocino	NA

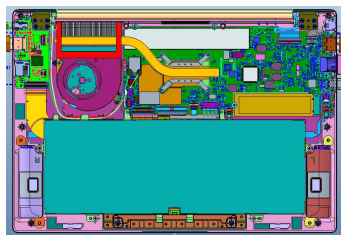
6W/10W/15W/28W



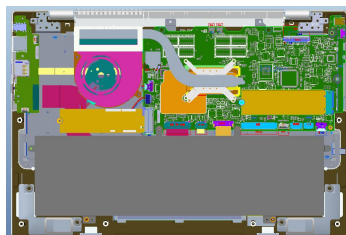
xN1G Series



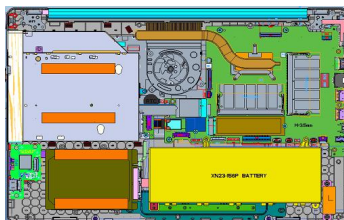
xN29 Series



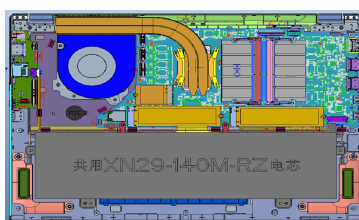
xN1 Series



xN5 Series

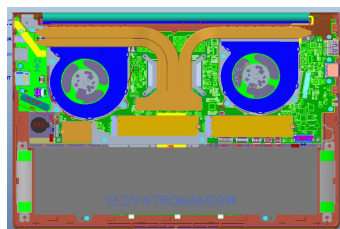


xN23 Series



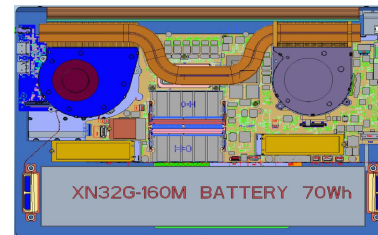
xN38 Series

45W



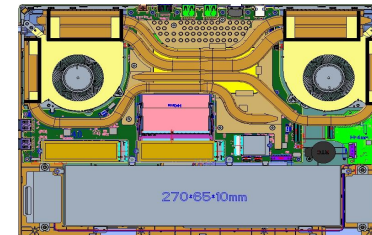
xN39 Series

70W-95W



xN32 Series

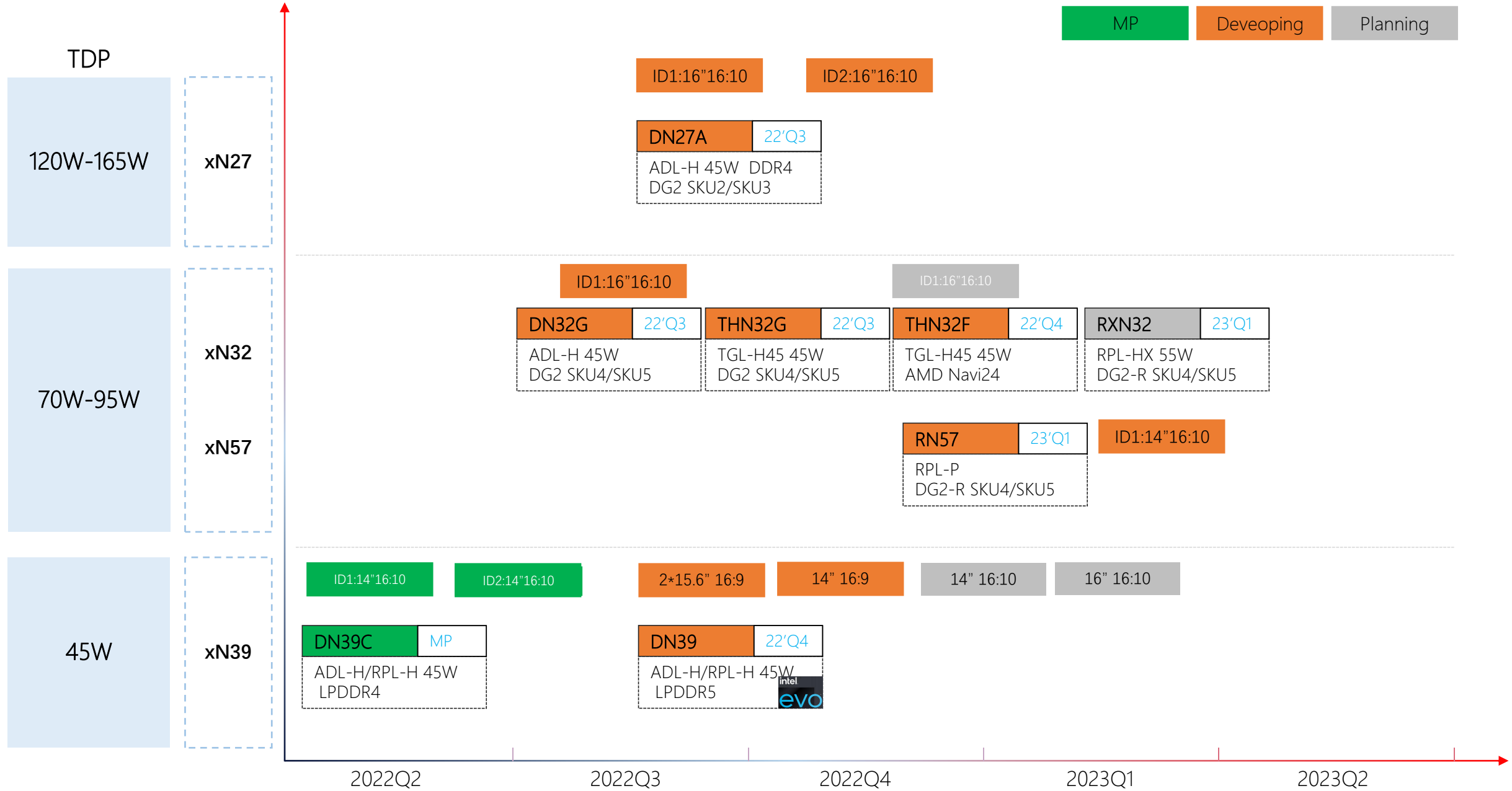
120W-165W

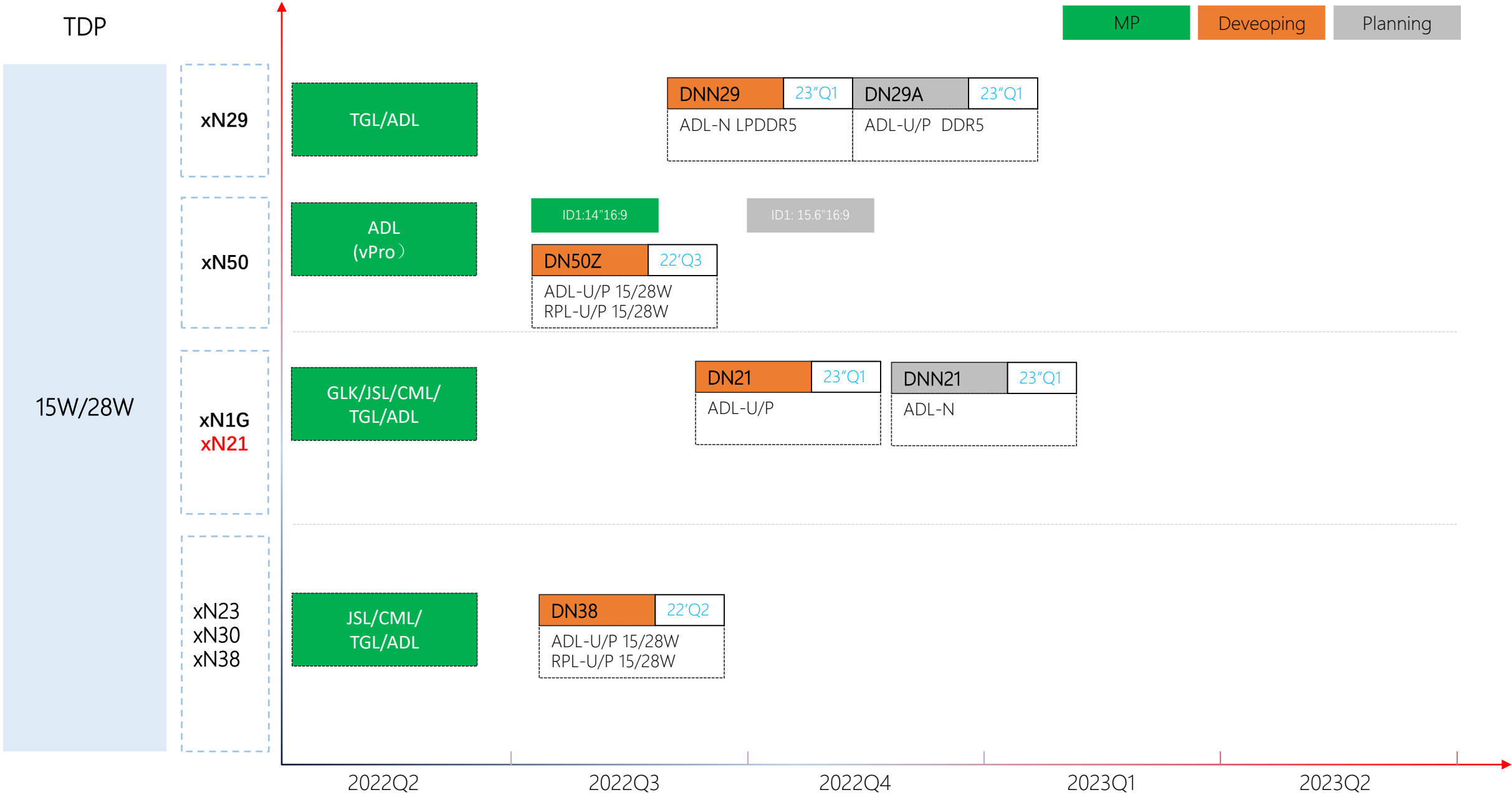


xN27/xN37 Series

02 Notebook PCBA Roadmap

1 intel notebook PCBA roadmap





TDP

MP

Deveoping

Planning

6W/10W/15W

xN5
xN25

GLK/JSL/CML/
TGL/ADL

DN5 22"Q3
ADL-U/P 15

xN1
xN11

GLK/JSL/CML/
TGL/ADL

DNN21S 22'Q4
ADL-N 6/10/15W

DNN21 22'Q4
ADL-N 6/10/15W

DNN11 22'Q4
ADL-N 6/10/15W

XU

GLK/JSL/CML/
TGL/ADL

DNXU 22'Q3
ADL-U/P

xN10

GLK/JSL

DNN10 22'Q3
ADL-N

xN15

GLK/JSL/CML/
TGL/ADL

DNN15 22'Q3
ADL-N

2022Q2

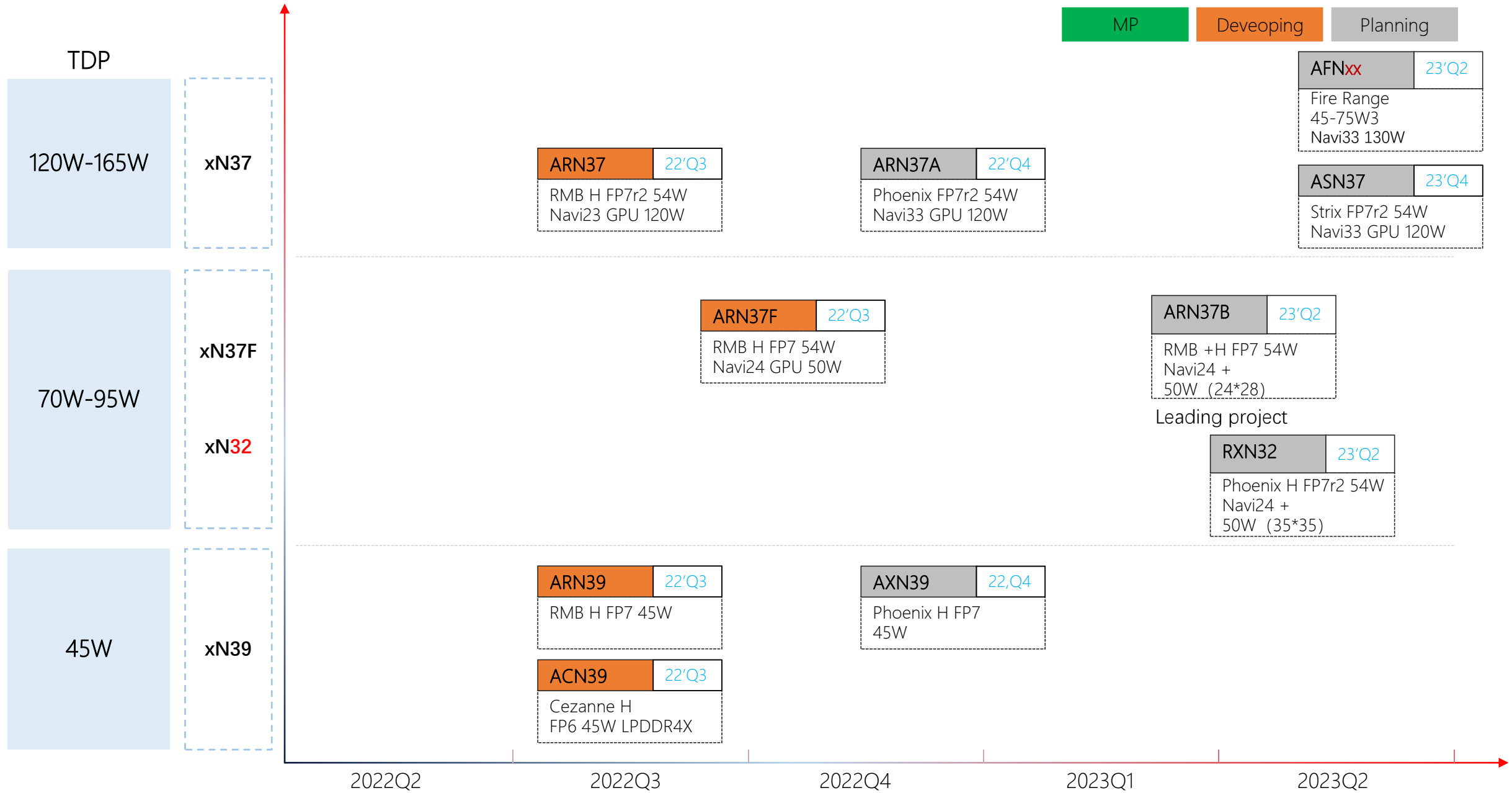
2022Q3

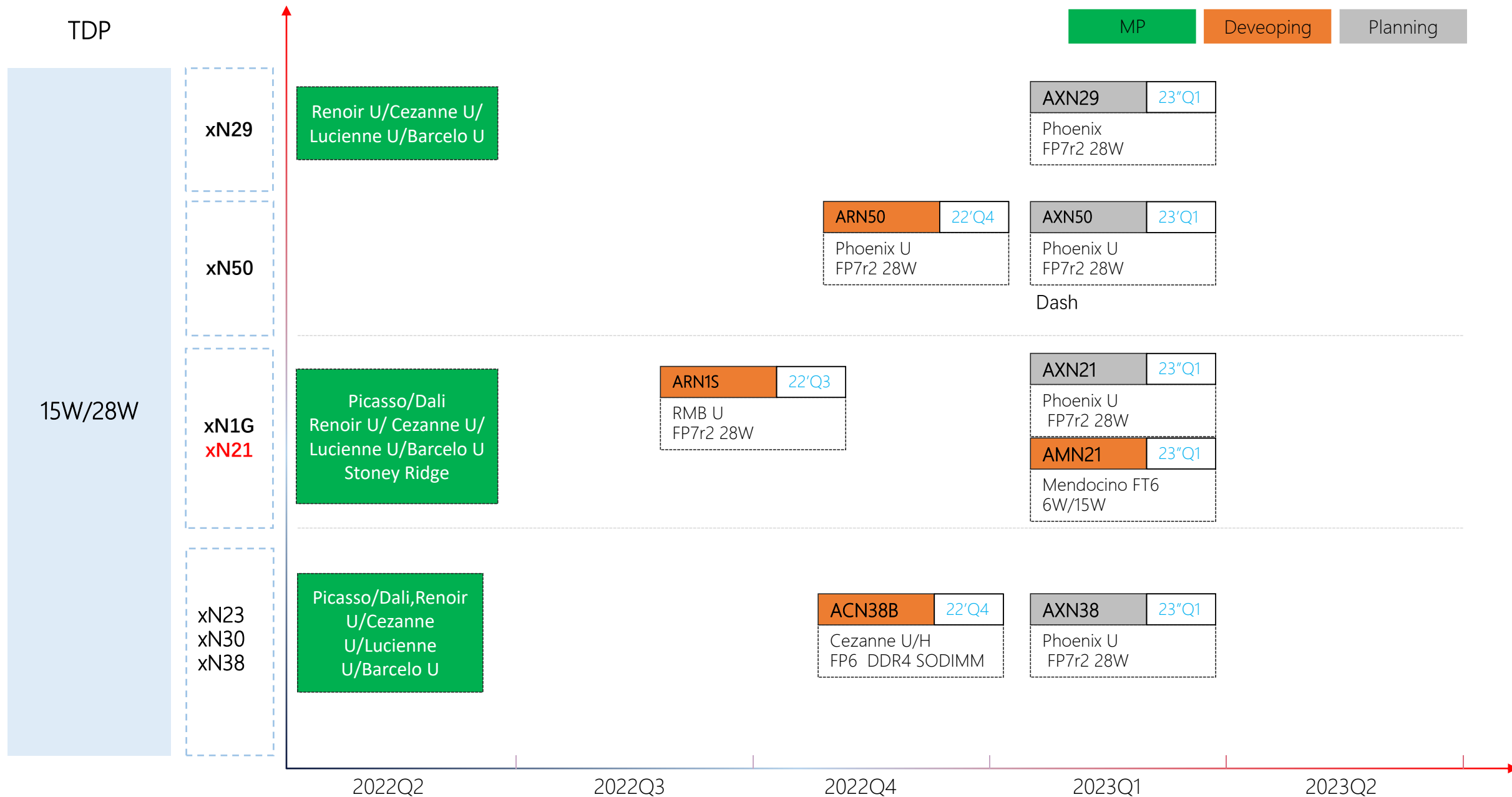
2022Q4

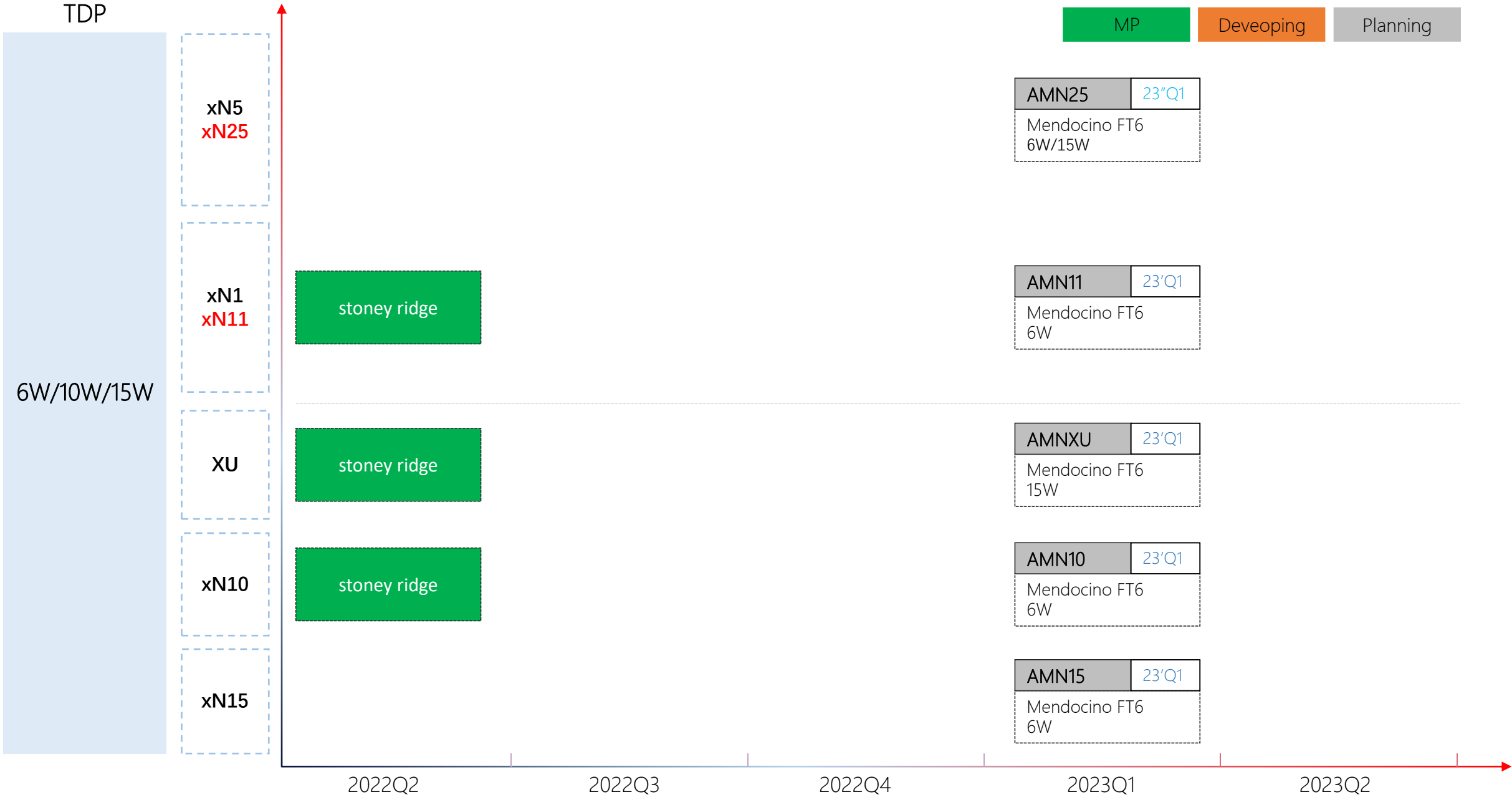
2023Q1

2023Q2

2 AMD notebook PCBA roadmap







3 Zhaoxin Notebook Roadmap



MP

Deveoping

Planning

Notebook
Series

xN52 Series

ZGN52

22'Q4

KX-6000G,25W

xN21 Series

ZEN1A

MP

6640MA, 25W

ZGN21

22'Q4

KX-6000G,25W

xN6 Series

ZEN6

MP

6640MA, 25W

2022Q2

2022Q3

2022Q4

2023Q1

2023Q2

03 Notebook Tooling Roadmap

1 Clamshell Tooling Series



Commercial / Consumer 45W/28W/15W/10W/6W



Z Style



xN29/xN39



xN1/xN1G



14" 16:10



MP
MP
22'Q3
22'Q3
MP

xN1-140M-RZ, All Mag, 38Wh@14.8mm, 15W
xN29-140M-RZ, All Mag, 50Wh@16.3mm, 15W
xN29-140M-SS, A/D Alu C Mag, 50Wh@16.3mm, 15W
xN29-140H-SS, A/D Alu C Plastic, 50Wh, 15W
xN39-140M-RZ, A/C Mag D Alu, 58Wh@17.9mm, 45W



22'Q3 ZGN52-140H-TBD, A/D Alu C Mag, 60Wh@14.9mm, 28W



22'Q2 xN1G-140H-TBD, A Metal / Full Plastic, 50Wh, 28W

16" 16:10



22'Q2 xN39-160M-RZ, All Mag, 50Wh@16.3mm, 15W



22'Q2 xN1G-160M-TBD, All Plastic, 50Wh, 28W

C Style



xN1G



xN21/xN39



13.3" 16:10



MP

xN1G-133M-YD, All Metal, 38Wh@17.5mm, 15W

14" 16:9



MP

MP

22'Q3

xN1G-140M3-YD, Metal, 60.42Wh@16.3mm, 15W
xN1G/xN21-140M5-YD, Metal, 65Wh@17.9mm, 35W
xN1G-140H-YD, A/D Metal, B/C Plastic 65Wh, 28W

15.6" 16:9



MP

22'Q3

22'Q3

xN1G-156M-YD, Metal, 53.58Wh@18mm, 35W
xN1G-156H-YD, AD Metal/BC Plastic, 53.58Wh@18.2mm, 35W
xN39-156H-YD, AD Metal/BC Plastic, 53.58Wh@18.2mm, 45W

X Style



xN29



xN1G



xN32



14" 16:9

MP



xN29-140M-YD, Metal, 16.5mm, 53.2Wh, 15W

MP



xN1G-140P-XD, Plastic, 55.86Wh, 21.4mm, HDD option, 28W

22" Q2



xN1G-140P3-XD, Plastic, 55.86Wh, 21.4mm, 28W

15.6" 16:9

T2



xN6-156P-SX, Full Plastic or A/D Metal, 53.2Wh, 21.8mm, 35W

16" 16:10



T0

xN32-160M-SS, Metal, 70Wh, 19.5mm, 80W

A Style



xN1G



xN39



14"16:9

MP



xN1G-140P-CS, Plastic, 21.9mm, 55Wh,28W

MP



xN1G-140P2-CS, Metal, 19.8mm,55Wh,28W

MP



xN1G-140M-SCD, Matel, 18mm, 50Wh, 35W

15.6"16:9

MP

MP

22'Q3



xN1G-156M-SCD, Matel, 17.8mm, 56.24Wh,35W

xN1G-156M2-SCD, Matel, 17.8mm, 53.8Wh,35W

xN39-156H-SCD, A/D Matel, C Plastic, 56.24Wh,45W

MP



xN1G-156P-CS, Plastic, 19.9mm, 55Wh, 28W

MP



xN1G-156P2-CS, Plastic, 21.9mm, 47.3Wh, 35W

16.1"16:9

MP



xN1G-161M-SCD, Matel,18mm, 56.24Wh,35W

Others

xN1G Series		xN29 Series	xN39 Series	xN50Series
14"16:9	MP	14"16:9	14"16:10 22"Q2	14"16:9 MP
				
 		 	 	 
xN1G-140M2-YD Metal 17.8mm,60Wh,35W		xN29-140H-YD A/D Metal,B/C Plastic, 19.5mm, 53.2Wh,28W	xN39-140H-YD A/D Metal,B/C Plastic 17.8mm, 60Wh,45W	xN50-140H-YD A/D Metal,B/C Plasti 18.5mm,57Wh,28W
intel AMD 兆芯		intel AMD	intel AMD	intel

Gaming 165W/95W

xN27 Series

16" 22'Q4



xN27A-160H-YD
AD Metal / BC Plastic
Intel ADL-H + DG2
165W

intel

xN37 Series

16" 22'Q4



xN37-160H
A Metal / BC Plastic
AMD RMB-H + Navi23
AMD RMB-H + Navi24
165W

AMD



Tender 28W/15W/10W/6W

xN23 Series

14" MP



xN23-140P-XD
Plastic

15.6" MP



xN23-156P2-HS
Plastic

15.6" MP



xN23-156P-XD
Plastic



xN30 Series

15.6" MP



xN30-156P-HS
Plastic

15.6" MP



xN30-156P-XD
Plastic



xN38 Series

15.6" MP



xN38-156P-CS
Plastic

15.6" MP



xN38-156P-YD
Plastic



ODD
HDMI+VGA/DP
4G LTE
Camera shutter
Detachable battery/SSD/DDR
.....

2 Convertible Tooling Series



15W/10W/6W

xN5 Series

11.6" MP



Metal xN5-116MC-YD

13.3" MP



Metal xN5-133MC2-YD

13.3" MP



Metal xN5-133HC-CS

13.3" MP



Metal xN-133MC-YD

14" MP



Metal xN5-140HC-CS&YK

intel.

xN25 Series

12.2"16:10 22'Aug



Metal xN25-122MC-TBD

14" 16:10 22'Aug



Metal xN25-140MC-TBD

intel.

xN50 Series

14" 16:10 22"Q2



A/D Metal xN50-140HC-YD

intel.

xN6 Series

14"16:10 MP



A/D Metal xN6-140HC-BHZ

intel. 兆芯

9W/6W

Clamshell

11.6" MP



Plastic xN1-116P-YSXD

11.6" 22'Q3



Plastic xN1-116P-XD
70cm drop protection +IP54

11.6" MP



Plastic xN1-116P-CM
70cm drop protection
+IP54+Handel



11.6" 22'Q3



Plastic xN1-116P-JB
70cm drop protection+IP54

Convertible

11.6" MP



Plastic xN1-116PC-CS
70cm drop protection
+IP54+embedded pen

11.6" 22'Q3



Plastic xN1-116PC-JB
70cm drop protection
+IP54+Hande

11.6" MP



Plastic xN1-116PC-CM
70cm drop protection
+IP54+Handel



11.6" 22'Q3



Plastic xN1-116PC-HS
70cm drop protection +IP54



04 Notebook Catalog

Commercial / Consumer 45W/28W/15W/10W/6W

Z Style



- Magnalium
Light to 930g
Thin to 14.8mm

- 16:10
Narrow bezel
>91% screen-to-body ratio

- 180° open angle
Can be open with one hand

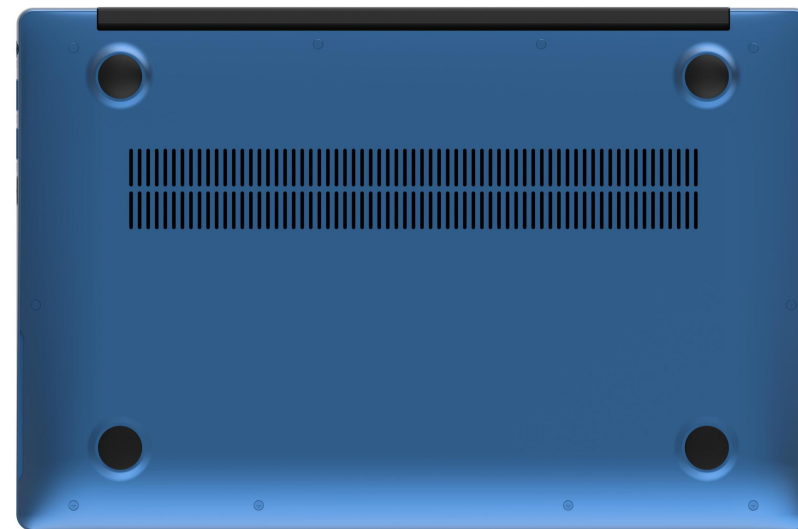
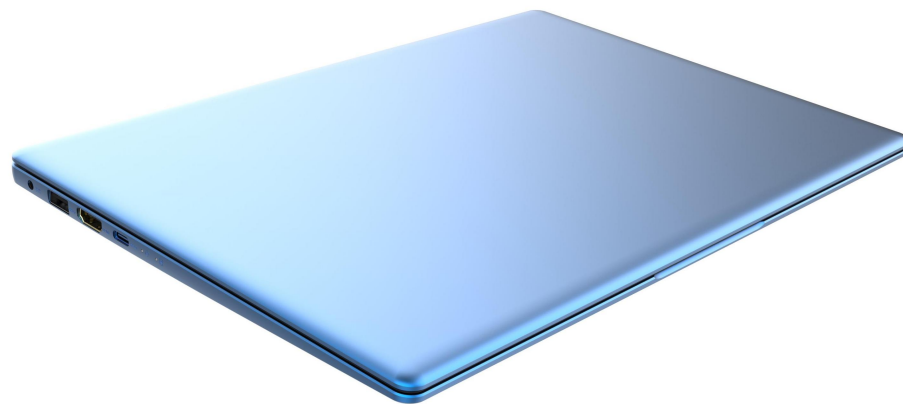
- Stylish simplicity
Light & portable



Tooling Code	xN1-140M-RZ	xN29-140M-RZ	xN29-140M-SS
ID			
Status	MP	MP	T0
Platform	Intel JS GLK CML-U CFL-U WHL-U ICL-U TGL-UP3/H35 AMD Stoney Ridge	Intel TGL-UP3/H35 ADL-U/P AMD Cezanne-U Renoir-U Lucienne-U Barcelo-U	Intel TGL-UP3/H35 ADL-U/P AMD Cezanne-U Renoir-U Lucienne-U Barcelo-U
LCD	14", 16:10, Up to 2.8K	14", 16"10, Up to 2.8K	14", 16"10, Up to 2.8K
Thermal	15W, Single FAN	15W, Single FAN	15W, Single FAN
Material	A/C/D Mg-Al Alloy, B Plastic	A/C/D Mg-Al Alloy, B Plastic	A/D Alu, C Mg-Al Alloy, B Plastic
Weight	<1Kg	<1.1Kg	<1.3Kg
Dimension	311.6*217.8*14.8mm	311.6*217.8*15.6mm	311.6*217.8*15.6mm
Open Angle	180°	180°	180°
Memory	DDR4/ LPDDR4X Onboard	2*SO-DIMM	2*SO-DIMM
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD	1*M.2 2280 SSD
Camera	1MP	1MP	1MP
Battery	7.6V/5000mAh, 38Wh	7.6V/6600 mAh, 50.16Wh	7.6V/6600 mAh, 50.16Wh
OS	Windows11 / Linux	Windows11 / Linux	Windows11 / Linux
MB I/O	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI	2*USB Type-C, 1*USB Type-A, 1*HDMI	2*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD	1*Audio, 1*USB Type-A, 1*Micro SD	1*Audio, 1*USB Type-A, 1*Micro SD
Feature	Ultra thin & light	Ultra thin & light, Dual type-C	Dual type-C

Tooling Code	xN39-140M-RZ	ZGN52-140M	
ID			
Status	T1	T0	
Platform	Intel ADL-U/P/H AMD Rembrandt-H Cezanne-H Renoir-H	兆芯 KX-6000G	
LCD	14", 16:10, Up to 2.8K	14", 16"10, Up to 2.8K	
Thermal	45W, Dual FAN	25W, Single FAN	
Material	A/C Mg-Al Alloy, B Plastic, D Aluminum	A/D Alu, C Mg-Al Alloy, B Plastic	
Weight	<1.2Kg	<1.2Kg	
Dimension	311.6*217.8*17mm	H < 14.9mm	
Open Angle	180°	180°	
Memory	2*SO-DIMM	2*SO-DIMM	
Storage	2*M.2 2280 SSD	1*M.2 2280 SSD	
Camera	1MP	1MP, Privacy shutter	
Battery	11.55V/5050mAh, 58.33Wh	11.55V / 5200mAh, 60.06Wh	
OS	Windows11 / Linux	Windows7 /Windows10 / UOS/ 中科方德/ 麒麟	
MB I/O	2*USB Type-C (TBT4 Option) , 1*USB Type-A, 1*HDMI	2*USB Type-C, 1*USB Type-A, 1*HDMI2.0	
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD	1*Audio, 2*USB Type-A, 1*Micro SD	
Feature	Dual type-C, Dual fans, High performance	Dual type-C, Kensington Lock, Camera shutter, CAM&MIC button	

C Style



■ Round shape
Smooth feel

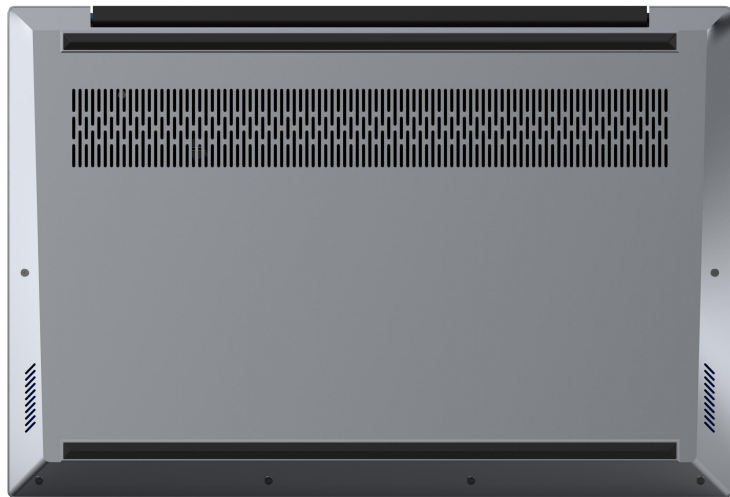
■ Rich interface
Potential expansibility

■ 13.3"/14"/15.6"
16:9/16:10
Metal/ plastic material

Tooling Code	xN1G-133M-YD	xN1G-140M3-YD	xN1G-140M5-YD
ID			
Status	MP	MP	MP
Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 ADL-U AMD Stoney Ridge Picasso/Dali Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3/H35 TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3/H35 TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6400/KX6000G
LCD	13.3" 16:10 ,up to 4k	14" 16:9 ,up to 4k	14" 16:9 ,up to 4k
Thermal	15W, Single FAN	15W, Single FAN	35W, Single FAN
Material	A/C/D Alu, B Plastic	A/C/D Alu, B Plastic	A/C/D Alu, B Plastic
Weight	<1.3 Kg	<1.4Kg	<1.4Kg
Dimension	297.1*212.3*17.5mm	325*214.8*16.3mm	325x214.8x17.9mm
Open Angle	135°	135°	135°
Memory	Onboard / SO-DIMM	Onboard / SO-DIMM	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD	1*M.2 2280 SSD
Camera	1MP	1MP	1MP
Battery	7.6V/5000mAh,38Wh	11.4V /5300mAH,60Wh	11.4V /5700mAH,65Wh
OS	Windows11 / Linux	Windows11 / Linux	Windows11 / Linux
MB I/O	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD	1*Audio, 2*USB Type-A, 1*Micro SD	1*Audio, 2*USB Type-A, 1*Micro SD
Feature	16: 10, support 2*SO-DIMM	Ultra thin & light,support 2*SO-DIMM,Rich interface	Support 2*SO-DIMM,Rich interface

Tooling Code	xN1G-156M-YD	xN1G-156H-YD	xN39-156H-YD
ID			
Status	MP	TS	TS
Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000	Intel TGL-UP3/H35 ADL-U/P/H AMD Cezanne-U/H Renoir-U/H Lucienne-U Barcelo-U Rembrandt-U/H
LCD	15.6" 16:9 ,up to 4k	15.6" 16:9 ,up to 4k	15.6" 16:9 ,up to 4k
Thermal	35W, Single FAN	35W, Single FAN	45W, Dual FAN
Material	A/C/D Alu, B Plastic	A/D Alu, B/C Plastic	A/D Alu, B/C Plastic
Weight	<1.5Kg	<1.6Kg	<1.6Kg
Dimension	359.5*233.8*18mm	359.5*233.8*18.2mm	359.5*233.8*18.2mm
Open Angle	135°	135°	135°
Memory	Onboard / SO-DIMM	Onboard / SO-DIMM	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD	1*M.2 2280 SSD
Camera	1MP/2MP	1MP/2MP	1MP/2MP
Battery	11.4V /4700mAh 53.58wh	11.4V /4700mAh 53.58wh	11.4V /4700mAh 53.58wh
OS	Windows11 / Linux	Windows11 / Linux	Windows11 / Linux
MB I/O	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI	2*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 2*USB Type-A, 1*Micro SD	1*Audio, 2*USB Type-A, 1*Micro SD	1*Audio, 2*USB Type-A, 1*Micro SD
Feature	Support 2*SO-DIMM,Rich interface	Support 2*SO-DIMM,Rich interface	45W thermal, Rich interface

X Style



Calm appearance

Independent power button for option
Camera shutter/ kensington lock for option

14"/15.6"/16", 16:9/16:10
Metal / Plastic

Tooling Code	xN29-140M-YD	xN1G-140P/P2/P3/H-XD	xN1G-156H-XD
ID			
Status	MP	MP	MP
Platform	Intel TGL-UP3/H35 ADL-U/P AMD Cezanne-U Renoir-U Lucienne-U Barcelo-U	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000
LCD	14" 16:9 ,up to 4k	14" 16:9 ,up to 4k	15.6" 16:9 ,up to 4k
Thermal	15W, Single FAN	28W, Single FAN	28W, Single FAN
Material	A/C/D Alu, B Plastic	A/B/C/D Plastic,A Alu option	A/D Alu,B/C Plastic
Weight	<1.4Kg	<1.4Kg	<2Kg
Dimension	322.5*219*16.5mm	323x221x19.8mm(P2,P3)/21.4mm(P)/18.9mm (H)	355.82*238.4*21.8mm
Open Angle	180°	180°	180°
Memory	2*SO-DIMM	Onboard / SO-DIMM	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD	1*M.2 2280 SSD
Camera	1MP	1MP/2MP	1MP/2MP
Battery	7.6V,7000 mAh, 53.2Wh	11.4V /4825mAh 55Wh	11.4V /4390mAh 50Wh
OS	Windows11 / Linux	Windows11 / Linux	Windows11 / Linux
MB I/O	2*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 2*USB Type-A, 1*Micro SD	1*Audio, 2*USB Type-A, 1*RJ45,1*Micro SD	1*Audio, 2*USB Type-A, 1*RJ45,1*Micro SD
Feature	Ultra thin & light, Dual type-C,Kensington Lock	Support 2*SO-DIMM,Rich interface,Kensington Lock, Camera shutter	Support 2*SO-DIMM,Rich interface,Kensington Lock, Camera shutter

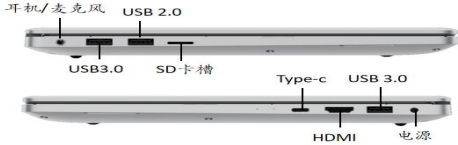
A Style



■ Stylish simplicity
Light & portable

■ Metal / Plastic
Camera shutter/ kensington lock for option



Tooling Code	xN1G-140M-SCD	xN1G-140P-CS	xN1G-140P2-CS
ID			
Status	MP	MP	MP
Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000
LCD	14" 16:9 ,up to 4k	14" 16:9 ,up to 4k	14" 16:9 ,up to 4k
Thermal	35W,Single FAN	28W,Single FAN	28W,Single FAN
Material	A/C/D Alu, B Plastic	A/B/C/D Plastic	A/B/C/D Plastic
Weight	<1.4 Kg	<1.4 Kg	<1.4 Kg
Dimension	322*208.6*18mm	332.5*223.4*20.5mm	327.95*224.76*19.75 mm
Open Angle	180°	135°	135°
Memory	Onboard / SO-DIMM	Onboard / SO-DIMM	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD	1*M.2 2280 SSD
Camera	1MP/2MP	1MP/2MP	1MP/2MP
Battery	11.4V /4390mAh 50Wh	11.4V /4825mAh 55Wh	11.4V /4825mAh 55Wh
OS	Windows11 / Linux	Windows11 / Linux	Windows11 / Linux
MB I/O	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 2*USB Type-A, 1*Micro SD	1*Audio, 2*USB Type-A, 1*RJ45,1*Micro SD	1*Audio, 2*USB Type-A, 1*RJ45,1*Micro SD
Feature	Support 2*SO-DIMM,Rich interface	Support 2*SO-DIMM,Rich interface, HDD	Support 2*SO-DIMM,Rich interface

Tooling Code	xN1G-156M/156M2-SCD	xN1G-156P-CS	xN1G-156P2-CS
ID			
Status	MP	MP	MP
Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000
LCD	15.6" 16:9 ,up to 4k	15.6" 16:9 ,up to 4k	15.6" 16:9 ,up to 4k
Thermal	35W,Single FAN	28W,Single FAN	28W,Single FAN
Material	A/C/D Alu, B Plastic	A/B/C/D Plastic	A/B/C/D Plastic
Weight	<1.7 Kg	<1.7 Kg	<1.8 Kg
Dimension	357.4*228.6*17.8mm	362.45*240.45*19.9 mm	374.96*294.71*21.4 mm
Open Angle	180°	135°	135°
Memory	Onboard / SO-DIMM	Onboard / SO-DIMM	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD	1*M.2 2280 SSD
Camera	1MP	1MP/2MP	1MP/2MP
Battery	11.4V 4700mAh, 53.58Wh	11.4V /4825mAh 55Wh	7.6V /5925mAh 45.62Wh
OS	Windows11 / Linux	Windows11 / Linux	Windows11 / Linux
MB I/O	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 2*USB Type-A, 1*Micro SD	1*Audio, 2*USB Type-A, 1*RJ45,1*Micro SD	1*Audio, 2*USB Type-A, 1*RJ45,1*Micro SD
Feature	Support 2*SO-DIMM,Rich interface	Support 2*SO-DIMM,Rich interface	Support 2*SO-DIMM,Rich interface,HDD

Tooling Code	xN1G-161M-SCD		
ID			
Status	MP		
Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000		
LCD	16.1" 16:9 ,up to 2k		
Thermal	35W,Single FAN		
Material	A/C/D Alu, B Plastic		
Weight	<1.8Kg		
Dimension	368.8*233.4*18mm		
Open Angle	175°		
Memory	Onboard / SO-DIMM		
Storage	1*M.2 2280 SSD		
Camera	1MP		
Battery	7.6V/6000mAh, 45.6Wh		
OS	Windows11 / Linux		
MB I/O	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI		
DB I/O	1*Audio, 2*USB Type-A, 1*Micro SD		
Feature	Support 2*SO-DIMM,Rich interface		

Others



Tooling Code	xN1G-140M-YD	xN1G-140M2-YD
ID		
Status	MP	T1
Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6400/KX6000G	
LCD	14" 16:9, up to 4K	14" 16:9, up to 4K
Thermal	35W,Single FAN	35W,Single FAN
Material	A/B/C/D Alloy	A/B/C/D Alloy, B Glass option
Weight	<1.5Kg	<1.5Kg
Dimension	326.3*220.4*18mm	326.3*220.4*18mm
Open Angle	180°	180°
Memory	Onboard / SO-DIMM	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD
Camera	1MP	1MP
Battery	11.4V,4390 mAh,50.046Wh	11.4V,4390 mAh,50.046Wh
OS	Windows11 / Linux	Windows11 / Linux
MB I/O	1*DC, 1*USB Type-C,1*USB Type-A, 1*HDMI	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD	1*Audio, 1*USB Type-A, 1*Micro SD,1*RJ45
Feature	Ultra thin & light	Ultra thin & light

Others



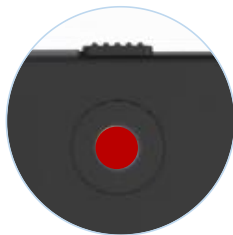
Tooling Code	xN29-140H-YD
Status	MP
Platform	Intel TGL-UP3/H35 ADL-U/P AMD Cezanne-U Renoir-U Lucienne-U Barcelo-U
LCD	14", 16"10, Up to 4K
Thermal	35W,Single FAN
Material	A/D Alu,B/C Plastic
Weight	<1.5 Kg
Dimension	317.65*231.08*19.5mm
Open Angle	180°
Memory	2*SO-DIMM
Storage	1*M.2 2280 SSD
Camera	1MP
Battery	7.6V, 6600 mAh, 50.16Wh
OS	Windows11 / Linux
MB I/O	2*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD,1*RJ45
Feature	Dual type-C, Smart Card

Others



Tooling Code	xN39-140H-YD
Status	MP
Platform	Intel TGL-UP3/H35 ADL-U/P AMD Rembrandt-H/U
LCD	14", 16"10, Up to 4K
Thermal	45W,Sing,Dual FAN
Material	A/D Alu,B/C Plastic
Weight	<1.4 Kg
Dimension	313.8*222*17.87mm
Open Angle	180°
Memory	on board
Storage	2*M.2 2280 SSD
Camera	1MP
Battery	11.55V/5200mAh, 60Wh
OS	Windows11 / Linux
MB I/O	2*USB Type-C(1 TBT4 option), 1*USB Type-A, 1*HDMI,Smart Card
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD
Feature	Ultra thin & light, Dual type-C, Dual SSD

Others



Tooling Code	xN50-140H-YD
Status	MP
Platform	Intel ADL-U/P AMD Rembrandt-U
LCD	14", 16"9, Up to 4K
Thermal	28W,Single FAN
Material	A/D Alu,B/C Plastic
Weight	<1.6 Kg
Dimension	324.2*219.7*17.9mm
Open Angle	180°
Memory	2*So-DIMM
Storage	2*M.2 2280 SSD
Camera	1MP
Battery	57Wh
OS	Windows11 / Linux
MB I/O	1*DC Jack,2*USB Type-C(1 TBT4 option), 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD,1*RJ45
Feature	Dual type-C, Dual SSD, vpro

Gaming



Tooling Code	xN27A-160H-TJ
Status	T2
Platform	Intel ADL-H + DG2 SKU2/SKU3 (DN27A)
LCD	16" 16:10,up to 4K
Thermal	165W, Dual FAN
Material	A Alu,B/C/D Plastic
Weight	~2.5 Kg
Dimension	~359*264.3*25.8mm
Open Angle	135°
Memory	2*So-DIMM
Storage	2*M.2 2280 SSD
Camera	2MP
Battery	15.2V/4868mAh,74WH
OS	Windows11
MB I/O	1*DC Jack, 1*USB Type-C (TBT4), 4*USB Type-A, 1*HDMI2.1, 1*RJ45(2.5GLAN)
DB I/O	1*Audio, 1*SD+MMC
Feature	Discrete graphics (Intel Arc) High-performance gaming book



Tooling Code	xN27A-160H-YD
Status	T2
Platform	Intel ADL-H + DG2 SKU2/SKU3 (DN27A)
LCD	16" 16:10,up to 4K
Thermal	165W, Dual FAN
Material	A/D Alu,B/C Plastic
Weight	2.4 Kg
Dimension	359.0*261.9*22 mm
Open Angle	165°
Memory	2*So-DIMM
Storage	2*M.2 2280 SSD
Camera	2MP
Battery	15.2V/4868mAh,74WH
OS	Windows11
MB I/O	1*DC Jack, 1*USB Type-C (TBT4), 4*USB Type-A, 1*HDMI2.1, 1*RJ45(2.5GLAN)
DB I/O	1*Audio, 1*SD+MMC
Feature	Discrete graphics (Intel Arc) High-performance gaming book

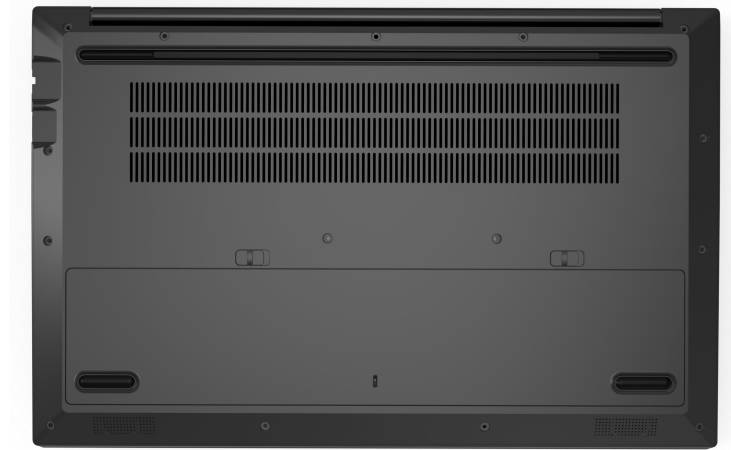
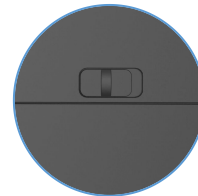
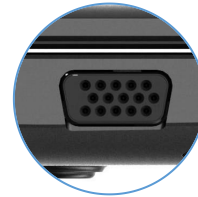


Tooling Code	xN37-160H-YD
Status	T1
Platform	AMD RMB-H / PHX-H + Navi23 (ARN37) RMB-H / PHX-H + Navi24 (ARN37F)
LCD	16" 16:10,up to 4K
Thermal	165W, Dual FAN
Material	A/D Alu,B/C Plastic
Weight	~2.4 Kg
Dimension	359.0*260*22 mm(ARN37) 359.0*260*19 mm(ARN37F)
Open Angle	165°
Memory	2*So-DIMM
Storage	2*M.2 2280 SSD
Camera	2MP
Battery	15.2V/4868mAh,74WH
OS	Windows11
MB I/O	1*DC Jack, 2*USB Type-C, 2*USB Type-A, 1*HDMI2.1, 1*RJ45(2.5GLAN)
DB I/O	1*Audio, 1*SD+MMC
Feature	Discrete graphics (Navi23/ Navi24) High-performance gaming book



Tooling Code	xN32G-160M-SS
Status	T1
Platform	Intel ADL-H + DG2 SKU4/SKU5 (DN32G) TGL-H45 + DG2 SKU4/SKU5 (THN32G) TGL-H45 + Navi24 (THN32F)
LCD	16" 16:10,up to 4K
Thermal	95W, Dual FAN
Material	A/C/D Alu,B Plastic
Weight	<1.5Kg
Dimension	H<18mm
Open Angle	135°
Memory	2*So-DIMM
Storage	2*M.2 2280 SSD
Camera	2MP
Battery	11.4V/6140mAh,70WH
OS	Windows11
MB I/O	2*USB Type-C (1*TBT4), 1*USB Type-A, 1*HDMI 2.1
DB I/O	1*Audio, 2*USB Type-A
Feature	Discrete graphics Dual type-C

Tender 28W/15W/10W/6W



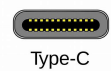
14"/15.6"
Full plastic

Detachable DDR/ SSD/ HDD/ battery
Camera shutter/ Kensington lock

Tooling Code	xN23-140P-XD	xN23-156P-XD	xN23-156P2-HS
ID			
Status	MP	MP	MP
Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Picasso/Dali	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Picasso/Dali	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Picasso/Dali
LCD	14" 16:9,up to 2K	15.6" 16:9,up to 2K	15.6" 16:9,up to 2K
Thermal	28W,Single FAN	28W,Single FAN	28W,Single FAN
Material	A/B/C/D Plastic	A/B/C/D Plastic	A/B/C/D Plastic
Weight	<2.2 Kg	<2.5 Kg	<2.5 Kg
Dimension	342.89*246.78*25.3mm	372.34*250.43*24.8mm	372.34*250.43*24.8mm
Open Angle	145°	145°	145°
Memory	2*So-DIMM	2*So-DIMM	2*So-DIMM
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD	1*M.2 2280 SSD
Camera	1MP/2MP	1MP/2MP	1MP/2MP
Battery	11.4V/4800mAh,54.72Wh or 7.6V/6000mAH,45.6Wh	11.4V/4800mAh,54.72Wh	11.4V/4800mAh,54.72Wh
OS	Windows11 / Linux	Windows11 / Linux	Windows11 / Linux
MB I/O	1*DC Jack ,1*VGA,1*RJ45,1*USB Type-C, 1*USB Type-A, 1*HDMI,1*Audio,	1*DC Jack ,1*VGA,1*RJ45,1*USB Type-C, 1*USB Type-A, 1*HDMI,1*Audio,	1*DC Jack ,1*VGA,1*RJ45,1*USB Type-C, 1*USB Type-A, 1*HDMI,1*Audio,
DB I/O	1*Audio, 1*Micro SD,DVD	1*Audio, 1*Micro SD,DVD	1*Audio, 1*Micro SD,DVD
Feature	VGA, DVD, Kensington lock	VGA, DVD, Kensington lock	VGA, DVD, Kensington lock

Tooling Code	xN38-156P-CS	xN38-156P-YD	
ID			
Status	MP	MP	
Platform	Intel TGL-UP3 H35 ADL-U AMD Cezanne-U/ Lucieene-U / Barcelo-U/ Renior-U	Intel TGL-UP3 H35 ADL-U AMD Cezanne-U/ Lucieene-U / Barcelo-U/ Renior-U	
LCD	15.6" 16:9,up to 2K	15.6" 16:9,up to 2K	
Thermal	28W,Single FAN	28W,Single FAN	
Material	A/B/C/D Plastic	A/B/C/D Plastic	
Weight	<1.8 Kg	<1.8 Kg	
Dimension	376.25*244.64*21.81mm	376.25*244.64*21.81mm	
Open Angle	180°	180°	
Memory	2*So-DIMM	2*So-DIMM	
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD	
Camera	1MP/2MP	1MP/2MP	
Battery	7.6V/6000mAH,45.6Wh	7.6V/6000mAH,45.6Wh	
OS	Windows11 / Linux	Windows11 / Linux	
MB I/O	1*DC Jack ,2*USB Type-C, 2*USB Type-A, 1*HDMI,	1*DC Jack ,2*USB Type-C, 2*USB Type-A, 1*HDMI,	
DB I/O	2*USB Type-A,2*Audio, 1*VGA,1*RJ45,1* SD	2*USB Type-A,1*Audio, 1*VGA,1*RJ45,1* SD	
Feature	VGA, DVD, Kensington lock, Camera shutter	VGA, DVD, Kensington lock, Camera switch	

2 Convertible



Type-C

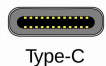


触摸板带指纹



独立开机键和音量加减

Tooling Code	xN5-116MC/133MC-YD
Status	MP
Platform	GLK/ GLK-R (GN5/ GN5B/ GN5D)/JSL (JN5)
LCD	11.6"/ 13.3" HD/FHD, Touch Panel
Thermal	6W
Material	A/C/D Cover_Metal B Cover_Metal/Glass
Weight	<1.1kg 11.6" <1.3kg 13.3"
Dimension	279.43*201.7*14.55mm 11.6" 308*214.67*14.5mm 13.3"
Open Angle	360°
Memory	DDR4 or LPDDR4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/ 2.0MP
WIFI	Onboard, PCIE/CNVI/USB
Battery	7.6V, 5000mAh 38Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-C; 1*DC JACK;
DB I/O	1*Audio JACK; 2*USB Type-A; 1*SD Card/SIM (4G option)



Type-C



触摸板带指纹



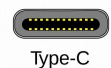
单SO-DIMM



ADL-P



Tooling Code	xN5-133MC2-YD
Status	MP
Platform	CML-U/ CFL-U/ WHL-U (CN5)/ICL-U (IN5)/TGL-UP3 (TN5/ TN5B)/ADL-P (DN5)
LCD	13.3" HD/FHD, Touch Panel
Thermal	10W/15W
Material	A/C/D Cover_Metal B Cover_Glass
Weight	<1.4Kg
Dimension	308*210.5*16.2mm
Open Angle	360°
Memory	onboard or DDR4 SO-DIMM
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP
WIFI	Onboard, PCIE/CNVI/USB
Battery	7.6V,6200mAh 47Wh/ 5000mAh 38Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-C; 1*DC JACK;
DB I/O	1*Audio JACK; 2*USB Type-A; 1*Micro SD Card;1*SIM (4G option)



Type-C



触摸板带指纹



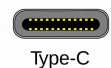
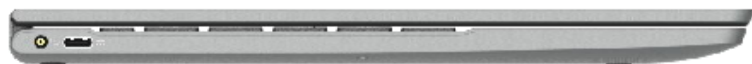
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ADL-P



Tooling Code	xN5-133HC-CS
Status	MP
Platform	CML-U/ CFL-U/ WHL-U (CN5)/ICL-U (IN5)/TGL-UP3 (TN5/ TN5B)/ADL-P (DN5)
LCD	13.3" HD/FHD, Touch Panel
Thermal	10W/15W
Material	A/D Cover_Metal B Cover_Glass C Cover_Plastic
Weight	<1.35kg
Dimension	313.7*213*15.8mm
Open Angle	360°
Memory	onboard or DDR4 SO-DIMM
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP
WiFi/BT	M.2 2230 PCIe&CNVi
Battery	7.6V, 5000mAh 38Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-C; 1*DC JACK;
DB I/O	1*Audio JACK; 2*USB Type-A; 1*Micro SD Card;1*SIM (4G option)



Type-C



触摸板带指纹



单SO-DIMM



ADL-P



Tooling Code	xN5-140HC-CS&YK
Status	MP
Platform	CML-U/ CFL-U/ WHL-U (CN5)/ICL-U (IN5)/TGL-UP3 (TN5/ TN5B)/ADL-P (DN5)
LCD	14" HD/FHD, Touch Panel
Thermal	10W/15W
Material	A/D Cover_Metal B Cover_Glass C Cover_Plastic
Weight	<1.5kg
Dimension	322.5*217.8*15.9mm
Open Angle	360°
Memory	onboard or DDR4 SO-DIMM
Storage	1*M.2 2280 PCIe/SATA
Camera	2.0MP
WiFi/BT	Onboard, PCIE/CNVI/USB
Battery	7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-C; 1*DC JACK;
DB I/O	1*Audio JACK; 2*USB Type-A; 1*Micro SD Card;1*SIM (4G option)



独立指纹
开机按键



双SO-DIMM



WiFi6
BT 5.2



摄像头
防隐私开关/锁孔



16 : 10

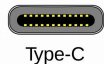


12代 Intel
酷睿处理器

Tooling Code	xN50-140HC-YD
Status	TS
Platform	Intel Alder Lake-P
LCD	14 16:10 up to 4k
Thermal	15W/28W
Material	A/D-Metal, B -Touch panel,C-Plastic
Weight	<1.6kg
Dimension	315.6*229*18.9mm
Open Angle	360°
Memory	2*DDR4 SO-DIMM
Storage	1*M.2 2280 PCIe4.0×4 1*M.2 2280 PCIe3.0×4/SATA
Camera	2M
WiFi/BT	M.2 2230 PCIe&CNVi
Battery	7.6V 7000mAH
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card;



可拆卸键盘
防扣键帽



触摸板带指纹



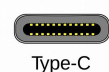
摄像头
防隐私开关/锁孔

Tooling Code	xN1-116P/116PC-CM
Status	MP
Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)/ADL-N
LCD	11.6" HD/FHD
Thermal	6W
Material	A/C/D Cover_Plastic B Cover_Glass
Weight	≤1.28KG
Dimension	293.3*210.9*22.7mm
Open Angle	135°/360°
Memory	DDR4 or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
WiFi/BT	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card;1*SIM; 1*Lock



ADL-N

可拆卸键盘
防扣键帽



触摸板带指纹 单SO-DIMM

WiFi6
BT 5.2

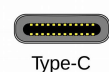
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防隐私开关/锁孔

Tooling Code	xN1-116P/116PC-JB
Status	TS
Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)/ADL-N
LCD	11.6" HD/FHD
Thermal	6W/10W
Material	A/C/D Cover_Plastic B Cover_Glass
Weight	≤1.28KG
Dimension	286.4*205*22.2mm
Open Angle	360°
Memory	DDR4 SO-DIMM or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
WiFi/BT	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*RJ45;1*SIM; 1*Lock



ADL-N

可拆卸键盘
防扣键帽



触摸板带指纹 单SO-DIMM



WIFI6
BT 5.2



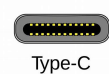
摄像头
防隐私开关/锁孔

Tooling Code	xN1-116P-JB
Status	TS
Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)/ADL-N
LCD	11.6" HD/FHD
Thermal	6W/10W
Material	Plastic
Weight	≤1.28KG
Dimension	
Open Angle	180°
Memory	DDR4 SO-DIMM or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
WiFi/BT	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*RJ45;1*SIM; 1*Lock



ADL-N

可拆卸键盘
防扣键帽

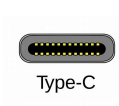


触摸板带指纹 单SO-DIMM

WiFi6
BT 5.2

摄像头
防隐私开关/锁孔

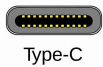
Tooling Code	xN1-116PC-HS
Status	TS
Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)/ADL-N
LCD	11.6" HD/FHD
Thermal	6W/10W
Material	A/C/D Cover_Plastic B Cover_Glass
Weight	≤1.28KG
Dimension	
Open Angle	360°
Memory	DDR4 or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
WiFi/BT	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*RJ45;1*SIM(主板预留) ; 1*Lock



Tooling Code	xN1-116PC-CS
Status	MP
Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)
LCD	11.6" HD/FHD
Thermal	6W
Material	A/C/D Cover_Plastic B Cover_Glass
Weight	<1.4kg
Dimension	306.25*245.3*23.5mm
Open Angle	360°
Memory	DDR4 or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*RJ45;1*SIM; 1*Lock



可拆卸键盘

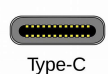


独立指纹
开机按键



摄像头
防隐私开关/锁孔

Tooling Code	xN1-116PC-CS
Status	T0
Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)
LCD	11.6" HD/FHD
Thermal	6W
Material	Plastic
Weight	≤1.4KG
Dimension	280.45*198.9*21mm
Open Angle	360°
Memory	DDR4 or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*RJ45; 1*Lock



Tooling Code	xN1-116PC-YSXD
Status	MP
Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)
LCD	11.6" HD/FHD
Thermal	6W
Material	Plastic
Weight	<1.3Kg
Dimension	282.6*190*19.5mm
Open Angle	135°
Memory	DDR4 or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*Lock

05 SI Notebook Series

IP3 Model	Common	Tooling Factory & Tooling model									
xN10	Y116C	超人实业		福瑞祥		森创达		斗牛			
		11.6"	YD200/YD200H	11.6"	N16S/W16A-S/UK116G/G116/QM116	13.3"	N133	11.6"	G1129		
		12.5"	YD125/YD125CHR	13.3"	N1302/N1303/N1305/YG133	14.0"	N1412	13.3"	D1459		
		13.3"	Z133CHR/YD133	14.0"	N1402/N1405/N1407/N1408/YG141	15.6"	I1560				
		14.0"	Z142/Z141CHR/Z142CHR	15.6"	G15						
		15.6"	Z156H/Z156CHR								
xN15	X133	超人实业									
		11.6"	Q11/Q112								
		13.3"	Q13/Q132								
		14.0"	Q14/Q142								
		15.6"	Q15/Q152								

IP3 Model	Common	Tooling Factory & Tooling model							
xU	X133U	超人实业				森创达		琛玛	
		13.3"	Q13UH/Q131UH/Q132U/ K139 (YK私模)			13.5"	XU135	14"	CM1410
		14.0"	Q14UH/Q141UHR/Q141ZUH/Q142ZU-2/K1402U/K1402US/ Q14UHR (WH私模)			14.0"	XU141S (塑胶/AD五金)/ XU14M2(16:10)	15.6"	CM1565
		15.6"	Q15US/Q151US/Q151UHR/QT15USR/QT15UHR/QT151USR Q15UHR (WH私模)			15.6"	XU156 (塑胶/AD五金)	超人精密	
		15.6"	QT17S					11.6"	W151 (WH私模)
x218	218	超人实业				森创达		宏利泰	
		11.6"	U11/U11S/U111S/U112/U112S/U112BS/U113S			14.1"	141N (CW私模)	11.6"	Y1112 (yoga)
		13.3"	U13/U13S/U131S/U132/U132S/U132BS/U133S/U13CH					13.3"	Y131201 (yoga) /Y1323 (yoga)
		14.0"	U14/U14S/UT14S/UT141S/U14CH					14"	Y1425(带RJ45)
		15.6"	U15HR					15.6"	Y1505



Education Roadmap & Catalog

2022 Q3
v1.1

01 Education Product roadmap

1 IP3 Education Product roadmap



MP

Deveoping

Planning

Entry
K12

xP2 series

intel
JSL MP
GLK MP
ADL-N Planning

xP2-101P-HLT

MP

Detachable
Drop70cm
底座键盘



ADL-N

xN1 series

intel
JSL MP
GLK MP
ADL-N Planning

AMD
Stoney Ridge MP

xN1-116PC-CS

MP

Convertible
IP54
Drop70cm
拆卸键盘



xN1-116P(C)-CM

MP

Convertible / Clamshell
IP54
Drop80cm



xN1-116PC-HS

T1

Convertible
IP54 Drop76cm
拆卸键盘
防扣键芯
4G



xN1-116PC-JB

T0

Convertible
IP54 Drop100cm
拆卸键盘
防扣键芯
4G



ADL-N

xN1-116P-XD

T2

Clamshell
IP54
Drop70cm
拆卸键盘
4G



xN1-116P-JB

T0

Clamshell
IP54 Drop76cm
拆卸键盘
防扣键芯
4G



2022 Q2

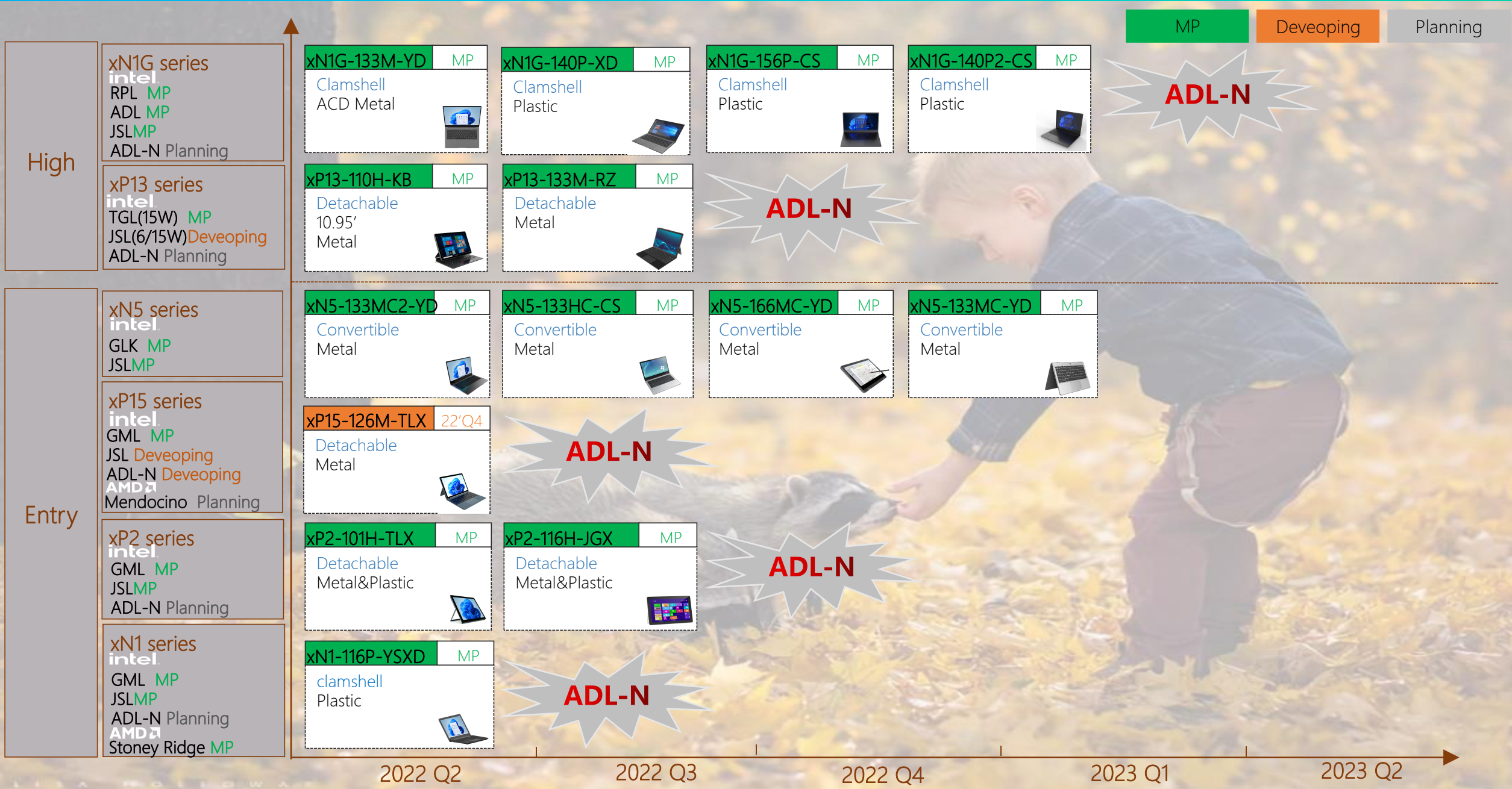
2022 Q3

2022 Q4

2023 Q1

2023 Q2

2 IP3 Education Product roadmap



02 Education Product Catalog

xP2

101H-TLX

MP



Specification

Platform	Intel JSL/ GLK 4W
LCD	10.1" HD/FHD, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Metal+Plastic
Weight	<600g
Dimension	255* 167*9.5 mm
Camera	Front_2MP, Rear_2MP/5MP
Battery	7.6V/3150mAh, 24Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	1*USB Type-A
	1*USB Type-C
	1*DC JACK
	1*Micro HDMI
DB I/O	1*Audio JACK
	1*TF Card + 1*SIM (Optional)

xP2

116H-JGX

MP



Specification

Platform	Intel JSL/ GLK 4W
LCD	11.6" HD/FHD, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Metal+Plastic
Weight	<800g
Dimension	290*178.9*9mm
Camera	Front_2MP, Rear_2MP/5MP
Battery	7.6V, 5000mA 38Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	1*USB Type-A
	1*USB Type-C
	1*DC JACK
	1*Micro HDMI
DB I/O	1*Audio JACK
	1*USB Type-A
	1*TF Card + 1*SIM (Optional)

xP2

101P-HLT

T1



Specification

Platform	Intel JSL/ GLK 4W
LCD	11.6" HD/FHD, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Plastic
Weight	<600g
Dimension	253*173*10.75mm
Camera	Front_2MP, Rear_2MP/5MP
Battery	7.6V/3800mAh, 28.8Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	1*USB Type-A
	1*USB Type-C
	1*DC JACK
	1*Micro HDMI
DB I/O	1*Audio JACK
	1*TF Card + 1*SIM (Optional)
Feature	70cm防跌落

xP13

133M-RZ

T1



Specification

Platform	Intel ADL-P/ TGL-UP3/ JSL 15W
LCD	13.3" Up to 4K, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Magnesium alloy
Weight	<900g
Dimension	310*212*10.6mm
Camera	Front_2MP, Rear_2MP/5MP
Battery	7.6V, 5000mA 38Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	2*USB Type-C (TBT4.0)
	1*Micro HDMI
DB I/O	1*Audio JACK
	1*USB Type-A
	1*TF Card/ SIM

xP13

110H-KB

MP



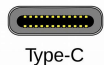
Specification

Platform	Intel ADL-P/ TGL-UP3/ JSL 15W
LCD	10.95" 1200*2000, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Metal/ Plastic
Weight	550g
Dimension	163*10.58*59mm
Camera	Front_2MP, Rear_2MP/5MP
Battery	7.6V, 3900mA 30Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	2*USB Type-C (TBT4.0)
	1*Micro HDMI
DB I/O	1*Audio JACK
	1*USB Type-A
	1*TF Card

xN1

116P/116PC-CM

MP



触摸板带指纹



摄像头
防隐私开关/锁孔

Specification

Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)/ADL-N
LCD	11.6" HD/FHD
Thermal	6W
Material	A/C/D Cover_Plastic B Cover_Glass
Weight	≤1.28KG
Dimension	293.3*210.9*22.7mm
Open Angle	135°/360°
Memory	DDR4 or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
WiFi/BT	Onboard, PCIe/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card;1*SIM; 1*Lock

xN1

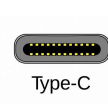
116PC-JB

TS



ADL-N

可拆卸键盘
防扣键帽



摄像头
防隐私开关/锁孔

Specification

Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)/ADL-N
LCD	11.6" HD/FHD
Thermal	6W/10W
Material	A/C/D Cover_Plastic B Cover_Glass
Weight	≤1.28KG
Dimension	286.4*205*22.2mm
Open Angle	360°
Memory	DDR4 SO-DIMM or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
WiFi/BT	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*RJ45;1*SIM; 1*Lock

xN1

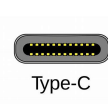
116P-JB

TS



ADL-N

可拆卸键盘
防扣键帽



摄像头
防隐私开关/锁孔

触摸板带指纹 单SO-DIMM

Specification

Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)/ADL-N
LCD	11.6" HD/FHD
Thermal	6W/10W
Material	Plastic
Weight	≤1.28KG
Dimension	
Open Angle	180°
Memory	DDR4 SO-DIMM or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
WiFi/BT	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*RJ45;1*SIM; 1*Lock

xN1

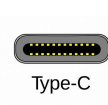
116PC-HS

TS



ADL-N

可拆卸键盘
防扣键帽



摄像头
防隐私开关/锁孔

触摸板带指纹 单SO-DIMM

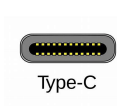
Specification

Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)/ADL-N
LCD	11.6" HD/FHD
Thermal	6W/10W
Material	A/C/D Cover_Plastic B Cover_Glass
Weight	≤1.28KG
Dimension	
Open Angle	360°
Memory	DDR4 or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
WiFi/BT	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*RJ45;1*SIM(主板预留) ; 1*Lock

xN1

116PC-CS

MP



可拆卸键盘

Specification

Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)
LCD	11.6" HD/FHD
Thermal	6W
Material	A/C/D Cover_Plastic B Cover_Glass
Weight	<1.4kg
Dimension	306.25*245.3*23.5mm
Open Angle	360°
Memory	DDR4 or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*RJ45;1*SIM; 1*Lock

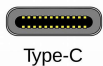
xN1

116PC-CS

T0



可拆卸键盘

独立指纹
开机按键摄像头
防隐私开关/锁孔

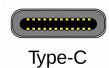
Specification

Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)
LCD	11.6" HD/FHD
Thermal	6W
Material	Plastic
Weight	≤1.4KG
Dimension	280.45*198.9*21mm
Open Angle	360°
Memory	DDR4 or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*RJ45; 1*Lock

xN1

116PC-YSXD

MP



Type-C



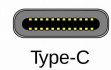
Specification

Platform	GLK/ GLK-R (GN1/ GN1B/ GN1C/ GN1D/ GN1F)/JSL (JN1)
LCD	11.6" HD/FHD
Thermal	6W
Material	Plastic
Weight	<1.3Kg
Dimension	282.6*190*19.5mm
Open Angle	135°
Memory	DDR4 or LPDDR4/4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/2.0MP
	Onboard, PCIE/CNVI/USB
Battery	7.4V, 5000mAh 37Wh/7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card; 1*Lock

xN5

xN5-116MC/133MC-YD

MP



Type-C



触摸板带指纹



独立开机键和音量加减

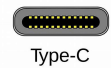
Specification

Platform	GLK/ GLK-R (GN5/ GN5B/ GN5D)/JSL (JN5)
LCD	11.6"/ 13.3" HD/FHD, Touch Panel
Thermal	6W
Material	A/C/D Cover_Metal B Cover_Metal/Glass
Weight	<1.1kg 11.6" <1.3kg 13.3"
Dimension	279.43*201.7*14.55mm 11.6" 308*214.67*14.5mm 13.3"
Open Angle	360°
Memory	DDR4 or LPDDR4X onboard
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP/ 2.0MP
WIFI	Onboard, PCIE/CNVI/USB
Battery	7.6V, 5000mAh 38Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-C; 1*DC JACK;
DB I/O	1*Audio JACK; 2*USB Type-A; 1*SD Card/SIM (4G option)

xN5

133MC2-YD

MP



Type-C



触摸板带指纹



单SO-DIMM



ADL-P



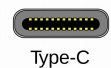
Specification

Platform	CML-U/ CFL-U/ WHL-U (CN5)/ICL-U (IN5)/TGL-UP3 (TN5/ TN5B)/ADL-P (DN5)
LCD	13.3" HD/FHD, Touch Panel
Thermal	10W/15W
Material	A/C/D Cover_Metal B Cover_Glass
Weight	<1.4Kg
Dimension	308*210.5*16.2mm
Open Angle	360°
Memory	onboard or DDR4 SO-DIMM
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP
WIFI	Onboard, PCIE/CNVI/USB
Battery	7.6V,6200mAh 47Wh/ 5000mAh 38Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-C; 1*DC JACK;
DB I/O	1*Audio JACK; 2*USB Type-A; 1*Micro SD Card;1*SIM (4G option)

xN5

133HC-CS

MP



Type-C



触摸板带指纹



单SO-DIMM



ADL-P



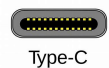
Specification

Platform	CML-U/ CFL-U/ WHL-U (CN5)/ICL-U (IN5)/TGL-UP3 (TN5/ TN5B)/ADL-P (DN5)
LCD	13.3" HD/FHD, Touch Panel
Thermal	10W/15W
Material	A/D Cover_Metal B Cover_Glass C Cover_Plastic
Weight	<1.35kg
Dimension	313.7*213*15.8mm
Open Angle	360°
Memory	onboard or DDR4 SO-DIMM
Storage	1*M.2 2280 PCIe/SATA
Camera	1.0MP
WiFi/BT	M.2 2230 PCIe&CNVi
Battery	7.6V, 5000mAh 38Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-C; 1*DC JACK;
DB I/O	1*Audio JACK; 2*USB Type-A; 1*Micro SD Card;1*SIM (4G option)

xN5

140HC-CS&YK

MP



Type-C



触摸板带指纹



单SO-DIMM



ADL-P



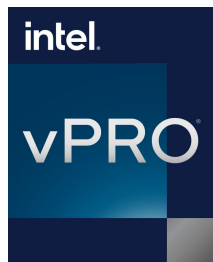
Specification

Platform	CML-U/ CFL-U/ WHL-U (CN5)/ICL-U (IN5)/TGL-UP3 (TN5/ TN5B)/ADL-P (DN5)
LCD	14" HD/FHD, Touch Panel
Thermal	10W/15W
Material	A/D Cover_Metal B Cover_Glass C Cover_Plastic
Weight	<1.5kg
Dimension	322.5*217.8*15.9mm
Open Angle	360°
Memory	onboard or DDR4 SO-DIMM
Storage	1*M.2 2280 PCIe/SATA
Camera	2.0MP
WiFi/BT	Onboard, PCIe/CNVI/USB
Battery	7.6V, 6000mAh 45.6Wh
OS	Windows 11 or Linux
MB I/O	1*USB Type-C; 1*DC JACK;
DB I/O	1*Audio JACK; 2*USB Type-A; 1*Micro SD Card;1*SIM (4G option)

xN5

140HC-YD

TS

独立指纹
开机按键

双SO-DIMM

WiFi6
BT 5.2摄像头
防隐私开关/锁孔

16 : 10

12代 Intel
酷睿处理器

Specification

Platform	Intel Alder Lake-P
LCD	14 16:10 up to 4k
Thermal	15W/28W
Material	A/D-Metal, B -Touch panel,C-Plastic
Weight	<1.6kg
Dimension	315.6*229*18.9mm
Open Angle	360°
Memory	2*DDR4 SO-DIMM
Storage	1*M.2 2280 PCIe4.0×4 1*M.2 2280 PCIe3.0×4/SATA
Camera	2M
WiFi/BT	M.2 2230 PCIe&CNVi
Battery	7.6V 7000mAH
OS	Windows 11 or Linux
MB I/O	1*USB Type-A ; 1*USB Type-C; 1*DC JACK; 1*Standard HDMI
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD Card;

xN1G

156P-CS

MP



Specification

Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000
LCD	15.6" 16:9 ,up to 4k
Thermal	28W,Single FAN
Material	A/B/C/D Plastic
Weight	<1.7 Kg
Dimension	362.45*240.45*19.9 mm
Open Angle	135°
Memory	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD
Camera	1MP/2MP
WIFI	/
Battery	11.4V /4825mAh 55Wh
OS	Windows11 / Linux
MB I/O	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 2*USB Type-A, 1*RJ45,1*Micro SD

xNIG

140P-XD

MP



Specification

Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000
LCD	14" 16:9 ,up to 4k
Thermal	28W, Single FAN
Material	A/B/C/D Plastic,A Alu option
Weight	<1.4Kg
Dimension	323x221x19.8mm(P2,P3)/21.4mm(P)/18.9mm (H)
Open Angle	180°
Memory	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD
Camera	1MP/2MP
WiFi/BT	11.4V /4825mAh 55Wh
Battery	Windows11 / Linux
OS	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI
MB I/O	1*Audio, 2*USB Type-A, 1*RJ45,1*Micro SD
DB I/O	1MP/2MP

xNIG

140P2-CS

MP



Specification

Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 H35/TGL-H45+HM570 ADL-U AMD Stoney Ridge Picasso/Dali AMD AM4 X300 chipset Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U 兆芯 KX6000
LCD	14" 16:9 ,up to 4k
Thermal	28W,Single FAN
Material	A/B/C/D Plastic
Weight	<1.4 Kg
Dimension	327.95*224.76*19.75 mm
Open Angle	135°
Memory	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD
Camera	1MP/2MP
WiFi/BT	/
Battery	11.4V /4825mAh 55Wh
OS	Windows11 / Linux
MB I/O	1*DC Jack, 1*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 2*USB Type-A, 1*RJ45,1*Micro SD

xNIG

133M-YD

MP



Specification

Platform	Intel JSL GLK CML-U CFL-U WHL-U ICL-U TGL-UP3 ADL-U AMD Stoney Ridge Picasso/Dali Cezanne-U Renoir-U Lucienne-U Barcelo-U Rembrandt-U
LCD	13.3" 16:10 ,up to 4k
Thermal	15W, Single FAN
Material	A/C/D Alu, B Plastic
Weight	<1.3 Kg
Dimension	297.1*212.3*17.5mm
Open Angle	135°
Memory	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD
Camera	1MP
WiFi/BT	/
Battery	7.6V/5000mAh,38Wh
OS	Windows11 / Linux
MB I/O	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD

11.6 Series

EDU K12
Tender



Serice	PCBA	Project	Size	IP54	Drop	Keyboard	Handle	DDR	LED	Camera	WIFI	4G	RJ45	Lock
xN1	JSL/GML/ADL	116PC-HS	11.6"	Y	76	可拆卸键盘 防扣键帽	N	贴片 or SO-DIMM	wif&Power	隐私开关 翻转	Y	Y	Y	Y
	JSL/GML/ADL	116P-JB	11.6"	Y	76	可拆卸键盘 防扣键帽	Y	贴片 or SO-DIMM	wif&Power	隐私开关 翻转	Y	Y	Y	Y
	JSL/GML/ADL	116PC-JB	11.6"	Y	100	可拆卸键盘 防扣键帽	Y	贴片 or SO-DIMM	wif&Power	隐私开关 翻转	Y	Y	Y	Y
	JSL/GML/ADL	116P-CM	11.6"	Y	80	不可拆卸键盘	Y	贴片	N	隐私开关 翻转	Y	N	Y	Y
	JSL/GML/ADL	116PC-CM	11.6"	Y	80	不可拆卸键盘	Y	贴片	N	隐私开关 翻转	Y	N	Y	Y
	JSL/GML/ADL	116PC-CS	11.6"	Y	70	可拆卸键盘	N	贴片	N	隐私开关 翻转	Y	N	Y	Y
	JSL/GML/ADL	116PC-XD	11.6"	Y	70	可拆卸键盘	N	贴片 or SO-DIMM	N	隐私开关 翻转	Y	Y	Y	Y
	JSL/GML/ADL	116PC-YSXD	11.6"	N	N	不可拆卸键盘	N	贴片	N	N	Y	N	Y	Y
xN1G	JSL/GML/ADL	116P-YSXD	11.6"	N	N	不可拆卸键盘	N	贴片	N	N	Y	N	Y	Y



AIO Roadmap Catalog

2022 Q3

v1.3

iP3 AIO Naming Rules

xA170 - 2145P - XWX

Series Code

LCD size

Material

Vendor Code

2145 - 21.45"
238 - 23.8"
270 - 27"
280 - 28"

P - Full plastic
M - Full metal
H - Metal + plastic



Consumer

xA170 Series



Platform	intel. AMD 兆芯
Thermal	up to 65W
Feature	Thin Mini ITX 170*170mm Standard MB

xA215 Series



Platform	intel.
Thermal	up to 35W
Feature	215 Common Tooling

Industrial

THA2G



Platform	intel.
DGPU	Nvidia RTX3060
Feature	Medial all-in-one For intraoral scanning & image generating

xA170 Series

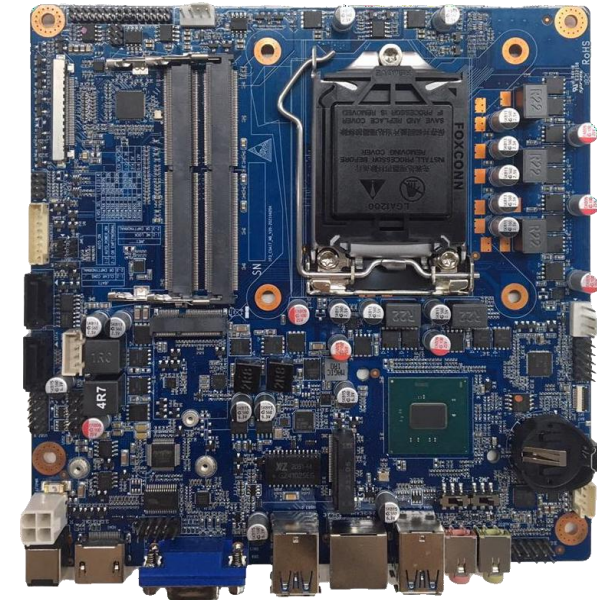
Platform

intel GLK/GLK-R/JSL
CML-U/CFL-U/WHL-U/ICL-U/TGL-UP3
CML-S + H410/B460 Chipset
ADL-S + H610/Q670

AMD Picasso-U/ Stoney Ridge
Renior-U/H,Cezanne-U/H,Lucienne-U,Barcelo-U
AM4 Socket + X300/A300 Chipset
FP3 Socket + A77E Chipset

兆芯 KX-6000 Series

MotherBoard Thin Mini ITX



170*170mm

MP

Deveoping

Planning

S

H61T1
MP on 2022,Q2

ADL-S 65W (Up to i5)
H610 chipset
2*DDR4 SODIMM

Q67T4
MP on 2022,Q3

ADL-S 65W (Up to i7)
Q670 chipset (vPro)
2*DDR4 SODIMM

RPL-S on Q67T4
MP on 2022,Q4

65W (Up to i7)
DDR4

H51T1
MP on 2022,Q4

RKL-S 65W
H510 chipset
2*DDR4 SODIMM

RPL-S on H61T1
MP on 2022,Q4

65W (Up to i5)
DDR4

U/H

TGUT1
MP on 2022,Q2

TGL-U/H35
28W/35W
2*DDR4 SODIMM

TGHT1
MP on 2022,Q3

TGL-H45 + HM570
45W
2*DDR4 SODIMM

ADPT1
MP on 2022,Q3

ADL-P
15W/28W/45W
2*DDR4 SODIMM

RPL-P on ADPT1
MP on 2023,Q1

Up to 45W
DDR5

ADPT2 (for PST)
MP on 2022,Q3

ADL-P
15W/28W/45W
2*DDR4 SODIMM

GLKT2 (for PST)
MP on 2022,Q3

GLK-N/J 10W
1*DDR4 SODIMM

ADL-N
MP on 2022,Q4

6W/10W

Small
Core

JSLT1
MP on 2022,Q3

JSL- 15W
1*DDR 4 SODIMM

2022Q2

2022Q3

2022Q4

2023Q1

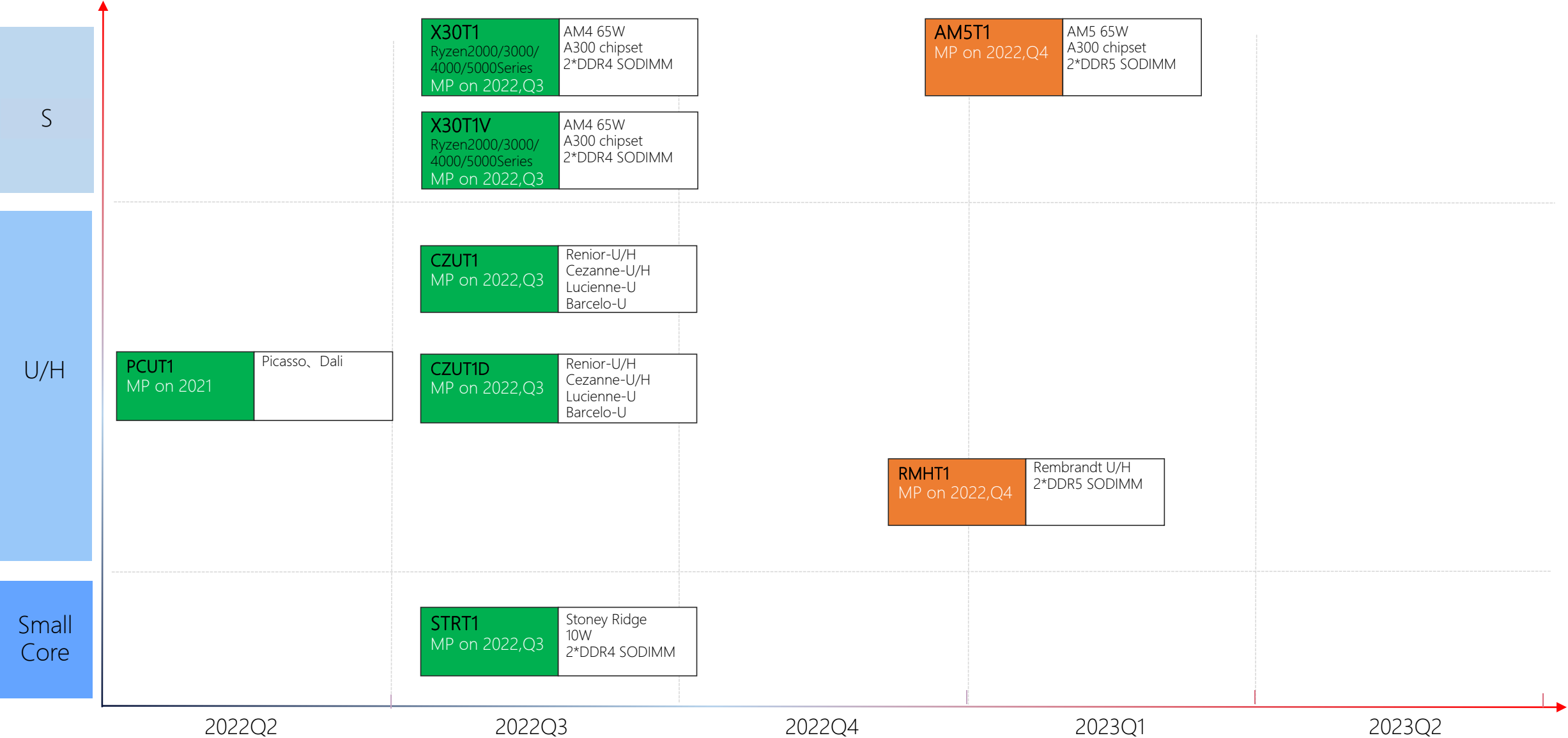
2023Q2



MP

Deveoping

Planning





兆芯

MP

Deveoping

Planning

U/H

EA170
MP on 2020

KX-6000
25W/35W
2*DDR4 SODIMM

ZGT1
MP on 2022,Q4

KX-6000G
2*DDR4 SODIMM

2022Q2

2022Q3

2022Q4

2023Q1

2023Q2

21.45"

MP



21.45"

xA170-2145P-XWX

camera (pop-up)

battery (optional)

ultra-thin

side ports

fixed / liftable stand

exclusive South America, Africa

21.5"

MP



21.5" / 23.8"

xA170-215P-HW

camera (pop-up)

ODD

vesa mount

fingerprint support

fixed / liftable stand

MP



21.5" / 23.8"

xA170-215P-SL

vesa mount

rotatable/liftable stand

MP



21.5" / 23.8"

xA170-215P2-SL

camera (bottom, optional)

side ports

fixed stand

23.8"

MP



23.8"
xA170-238P-TN
camera (pop-up)
vesa mount
fixed stand

MP



21.5" / 23.8"
xA170-238P-HW
camera (pop-up)
ODD, Touch
vesa mount
fingerprint support
fixed / liftable stand

MP



21.5" / 23.8"
xA170-238P-SL
vesa mount
rotatable/liftable stand

MP



21.5" / 23.8"
xA170-238P2-SL
camera (bottom, optional)
side ports
fixed stand

MP



23.8"
xA170-238P2-XB
camera privacy switch (bottom)
ODD
Touchpanel support
fixed / liftable stand

22"QA



23.8"
xA170-238P2-TN
camera (top, optional)
ODD
vesa mount

22"QA



23.8"
xA170-238P3-SL
camera (pop-up)
ODD
vesa mount

27"

MP



27"

xA170-270P-TN
Changable base

xA170

2145P-XWX

MP



Features :

21.45"
Pop-up camera
Built-in battery
Vesa

Specification

LCD	21.45" FHD 60Hz, 16:9		
Tilt adjust	-5°/+21°		
Motherboard	ADPT2/GLKT2		
CPU TDP	≤28W		
Material	Plastic		
Rear I/O	1*DC JACK		
	4*USB3.2 Gen1 Type-A		
	2*USB2.0 Type-A		
	1*RJ45 (GLAN)		
	1*HDMI 1.4		
	1*Audio Combo		
	1*Micro SD		
Battery	Support		
Features	Camera	Vesa	TP
	Y	Y	/

xA170

215P/238P-HW

MP



Features :

ODD
Vesa
Changeable Base
Pop-up Camera
Fingerprint



Liftable Base



Fixed Base

Specification

LCD	21.5"/23.8" FHD 60Hz,16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤65W		
Material	Plastic		
Weight	7.5Kg		
Packing Size	600*205*434mm		
I/O Ports	1*DC JACK		
	5*USB Type-A		
	1*USB Type-C		
	1*SD Card		
	1*ODD		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
Features	1*Earphone + 1*MIC_IN		
	Camera	Vesa	TP
	Y	Y	Y

xA170

215P/238P-SL

MP



Features :

Rotatable
Liftable

Specification

LCD	21.5"/23.8" FHD 60Hz, 16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤28W		
Material	Plastic		
Weight	7.5Kg		
Packing Size	600*205*434mm		
I/O Ports	1*DC JACK		
	4*USB Type-A+2 USB 2.0		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
Features	Camera	Vesa	TP
	/	Y	/

xA170

215P2/238P2-SL

MP



Features :

Privacy Camera Shutter

Specification

LCD	21.5"/23.8" FHD 60Hz, 16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤65W		
Material	Plastic		
Weight	7.5Kg		
Packing Size	600*205*434mm		
I/O Ports	1*DC JACK		
	4*USB Type-A+2 USB 2.0		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
Features	Camera	Vesa	TP
	Y	Y	/

xA170

238P-TN

MP



Features :

Pop-up camera

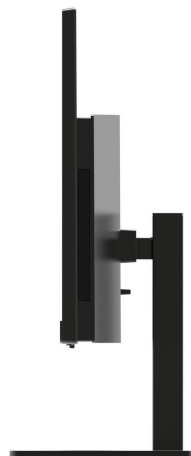
Specification

LCD	23.8" FHD 60Hz, 16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤65W		
Material	Plastic		
Weight	7.8Kg		
Packing Size	610*175*470mm		
I/O Ports	1*DC JACK		
	4*USB Type-A+2*USB 2.0		
	1*SD Card		
	1*ODD		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
Features	1*Earphone + 1*MIC_IN		
	Camera	Vesa	TP
	Y	Y	Y

xA170

238P2-XB

MP



Features :

ODD
Vesa
Changeable Base
Privacy camera shutter



Liftable Base



Fixed Base

Specification

LCD	23.8" FHD 60Hz, 16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤65W		
Material	Plastic		
Weight	6Kg		
Packing Size	600*210*535mm		
I/O Ports	1*DC JACK		
	6*USB Type-A		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
	1*ODD (Option)		
	1*SD Card		
Features	Camera	Vesa	TP
	Y	Y	Y

xA170

270P-TN

MP



Features :

Changeable stand

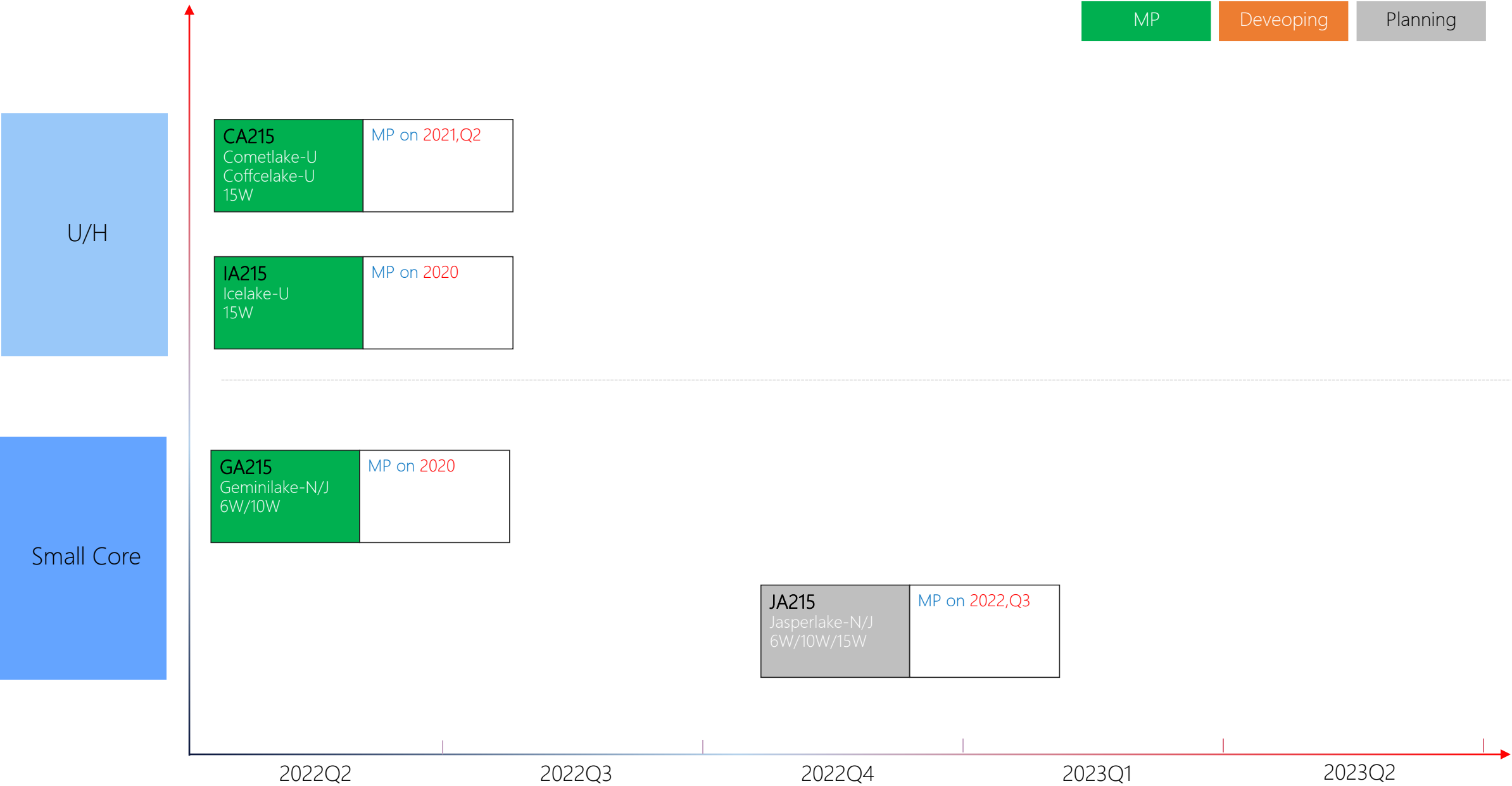
Specification

LCD	27" FHD 60Hz, 16:9		
Motherboard	Thin Mini ITX (170*170)		
CPU TDP	≤65W		
Material	Plastic		
Weight	TBD		
Packing Size	TBD		
I/O Ports	1*DC JACK		
	4*USB Type-A+2 USB 2.0		
	1*RJ45		
	1*HDMI/ DP		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
Features	Camera	Vesa	TP
	/	/	/

xA215 Series

Platform

intel GLK/GLK-R/JSL
CML-U/CFL-U/WHL-U/ICL-U



xA215

215P-BYD



Features :

Changeable base
Ultra thin

Specification

LCD	21.5"		
Viewing Angle	±178°		
Motherboard	xA215 MB		
CPU TDP	≤35W		
Material	Plastic		
Weight	TBD		
Packing Size	TBD		
I/O Ports	2*USB 3.2 GEN1		
	3*USB2.0		
	1*Audio jack		
	1* MIC in		
	1*HDMI		
	1*RJ45		
Features	SD Careader		
	Camera	Vesa	TP
	/	/	/

xA215

215P-JT



Features :

Ultra thin

Specification

LCD	21.5" FHD 60Hz		
Viewing Angle	±178°		
Motherboard	xA215 MB		
CPU TDP	≤15W		
Material	Plastic		
Weight	TBD		
Packing Size	TBD		
I/O Ports	2*USB 3.2 GEN1		
	3*USB2.0		
	1*Audio jack		
	1* MIC in		
	1*HDMI		
	1*RJ45		
	SD Careader		
Features	Camera	Vesa	TP
	/	/	/

xA215

238P-BYD



Features :

Changeable base



Specification

LCD	23.8"		
Viewing Angle	±178°		
Motherboard	xA215 MB		
CPU TDP	≤35W		
Material	Plastic		
Weight	TBD		
Packing Size	TBD		
I/O Ports	2*USB 3.2 GEN1		
	3*USB2.0		
	1*Audio jack		
	1* MIC in		
	1*HDMI		
	1*RJ45		
	SD Careader		
Features	Camera	Vesa	TP
	Y	/	/

xA215

238P-JT



Features :

Ultra thin

Specification

LCD	23.8" FHD 60Hz		
Viewing Angle	±178°		
Motherboard	xA215 MB		
CPU TDP	≤15W		
Material	Plastic		
Weight	TBD		
Packing Size	TBD		
I/O Ports	2*USB 3.2 GEN1		
	3*USB2.0		
	1*Audio jack		
	1* MIC in		
	1*HDMI		
	1*RJ45		
Features	SD Careader		
	Camera	Vesa	TP
	/	/	/

THA2G Series

Platform

intel. TGL-H45

THA2G



Features :

Medial all-in-one, for intraoral scanning & image generating
 High-performance DGPU
 Built-in battery
 Support touchpanel

Specification

LCD	21.5", 16:9, 1920*1080
Touchpanel	Support
CPU	Intel TGL-H45, i7-11800H
PCH	HM570
DGPU	Nvidia RTX3060, 6GB
Memory	2*SO-DIMM
Storage	1*M.2 2280 SSD
camera	5MP, with DMIC
Rear I/O	2*USB3.2 Gen1
	1*USB2.0
	1*Type-C (PD、Data)
	1*RJ45 (GLAN)
	1*19V DC-IN
	1*HDMI2.1-OUT (Optional)
Battery	11.4V/8200mAh
System	WIndows10/ WIndows11
Application	Stomatologic



IP3 AMD DGPU PRODUCT

2022 09

I + A

**THIN & LIGHT
GAMING / CREATOR**

- Intel TGL-H45
+ AMD Navi24
- Thin Gaming NB
- ≤18mm z-height
- Casual Gamer/ Content Creator

A + A

**EVERYDAY
GAMING**

- AMD RMB(+) H/ PHX H
+ AMD Navi23/ Navi33
- Best-in-Class Performance
- ≤22mm z-height
- Lifestyle Gamer/ Budget Gamer

A + A

**THIN & LIGHT
GAMING / CREATOR**

- AMD RMB(+) H/ PHX H
+ AMD Navi24/ Navi24 kicker
- Thin Gaming NB
- ≤19mm z-height
- Casual Gamer/ Content Creator

2 AMD DGPU Product Roadmap



A + A

Everyday Gaming

ARN37 & ARN37A

AMD
RDNA 2

Perf/Watt Improvement
Ray Tracing, Variable Rate
Shading & More

Navi23
Equipped

Best-in-class
performance

AMD
RDNA 3

Navi33
Released in 2023

AMD
Advantage



16 inch
A/D Metral
22mm



Dual FAN
165W Thermal



AMD CPU Zen3+/ Zen4



AMD DGPU Navi23/ Navi33

Meet 2023 AMD Advantage Guideline

- AMD Zen3+, FP7r2, Rembrandt H/ Rembrandt+ H
AMD Zen4, FP7r2, Phoenix H
- 45W-54W TDP
- Up to 8C/ 16T
- Base Freq up to 3.3GHz, Max Turbo Freq up to 5GHz
- L3 Cache up to 16MB, DDR5/LPDDR5 only

- AMD Navi23, M5, R22M-E65/E100 (RX6650M/6650MXT)
AMD Navi33, M5, R23M-P1/P2
- Up to 120W TGP
- Up to 32CUs
- 2048 stream processors, 2222MHz
- GDDR6, Up to 8GB, 256GB/s

Outstanding Thermal Design

165W device consumption

- Selected Vendor : Cooperate with the vendor which approval by OEM
- Use FCN big size dual FAN, diameter 85mm, thickness 9.5mm
- High air volume, low noise
- Four air outlets, Up to 80% open free area
- Four Fin design
- F1+Fn: Energy Saving/ Performance/ Beast mode



MP on 22' Q4

ARN37 Specification

Display	16" 2560*1600 165Hz SRGB 100% 500ntis	I/O Port	Rear	1*DC-IN
CPU	AMD , FP7r2, Rembrandt H/ Rembrandt+ H, 45W			2*USB Type-C (1*USB4+1*USB3.2 Gen1)
GPU	AMD Navi23, M5, R22M-E65/E100 (RX6650M/6650MXT)			1*HDMI 2.1
Memory	2*DDR5 SO-DIMM, 6400MHz, Up to 64GB			1*RJ45 (GLAN/2.5 GLAN)
Storage	2 *M.2 2280 (PCIe*4)		Right	2*USB Type-A (USB3.2 Gen2)
Battery	15.4V/ 4800mAh, 74WH		Left	1*Audio Jack, MIC&Earphone combo
Camera	2MP			1*3in1 Card reader
WiFi	WiFi 802.11 ac/ax 2x2 MIMO	Button	Power Button	
BT	5.2	Key board	US/UK layout, 4 area backlit keyboard support	
Speaker	2*2W	Adapter	230W ,19V AC Adapter	
MIC	2*D-MIC	OS	Windows 11	
Sensors	Hall Sensor	Dimension	359*260*22 mm	
Indicated light	Power/Charge/CapsLock/NumLock	Material	Cover A/ D: Metal, Cover B/ C: Plastic	

Meet 2023 AMD Advantage Guideline

MP on 23' Q1		ARN37A Specification		
Display	16" 2560*1600 165Hz SRGB 100% 500ntis	I/O Port	Rear	1*DC-IN
CPU	AMD , FP7r2, Rembrandt+ H/ Phoenix H, 45W			2*USB Type-C (1*USB4+1*USB3.2 Gen2)
GPU	AMD Navi33, M5, R23M-P1/P2			1*HDMI 2.1
Memory	2*DDR5 SO-DIMM, 6400MHz, Up to 64GB			1*RJ45 (2.5 GLAN)
Storage	2 *M.2 2280 (PCIe*4)		Right	2*USB Type-A (USB3.2 Gen2)
Battery	15.4V/ 4800mAh, 74WH		Left	1*Audio Jack, MIC&Earphone combo
Camera	2MP			1*3in1 Card reader
WiFi	WiFi 802.11 ax 2x2 MIMO	Button	Power Button	
BT	5.2 above	Key board	US/UK layout, 4 area backlit keyboard support	
Speaker	2*2W	Adapter	230W ,19V AC Adapter	
MIC	2*D-MIC	OS	Windows 11	
Sensors	Hall Sensor	Dimension	359*260*22 mm	
Indicated light	Power/Charge/CapsLock/NumLock	Material	Cover A/ D: Metal, Cover B/ C: Plastic	

A + A

Thin & Light Gaming / Creator

ARN37F & ARN37B



16 inch
A/D Metral
19mm



16:10 100% sRGB
Up to 4K
Narrow Bezel



2* FAN
95W Thermal



AMD Zen3+ / Zen4
AMD Navi24 /
Navi24 kicker



WiFi6/6E
BT 5.2



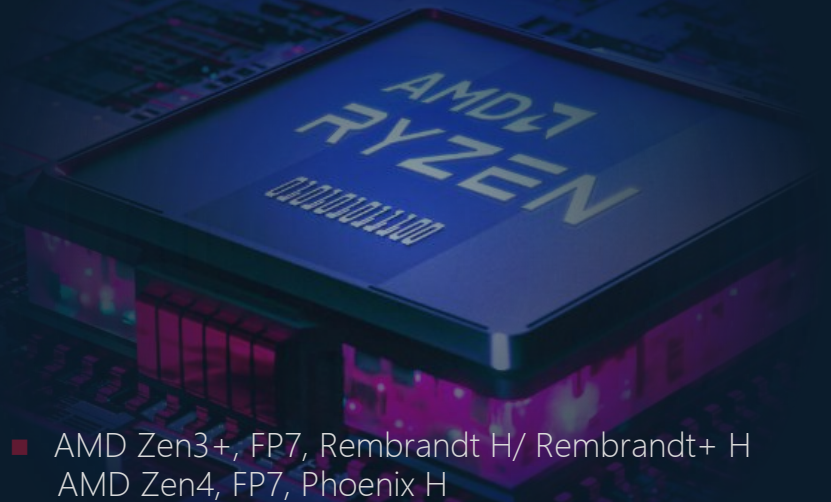
2* PCIe SSD
2* SO-DIMM



AMD CPU Zen3+/ Zen4



AMD DGPU Navi24/ Navi24 kicker



- AMD Zen3+, FP7, Rembrandt H/ Rembrandt+ H
AMD Zen4, FP7, Phoenix H
- 45W-54W TDP
- Up to 8C/ 16T
- Base Freq up to 3.3GHz, Max Turbo Freq up to 5GHz
- L3 Cache up to 16MB, DDR5/LPDDR5 only



- AMD Navi24, S5, R21M-P50 (RX6500M)
AMD Navi24 kicker, S5, R23M-M2
- 35W-50W TGP
- Up to 16CUs
- 1024 stream processors, 2191MHz
- GDDR6, Up to 4GB, 128GB/s

Immersive Vision

6.46mm

12.17mm



- 16", narrow bezel
- 83% S-B Ratio
- 16:10, 11% larger visual area
- 2560*1600, 165Hz
- 100% sRGB
- HDR400
- 8bit original color depth
- 500nits high brightness
- DC dimmer, no splashing screen



MP on 22' Q4

ARN37F Specification

Display	16" 2560*1600 165Hz SRGB 100% 500ntis	I/O Port	Rear	1*DC-IN
CPU	AMD , FP7, Rembrandt H/ Rembrandt+ H, 45W			2*USB Type-C (USB4)
GPU	AMD Navi24, S5, R21M-P50 (RX6500M)			1*HDMI 2.1
Memory	4*LPDDR5 315Ball, 6400MHz, Up to 64GB			1*RJ45 (GLAN/2.5 GLAN)
Storage	2 *M.2 2280 (PCIe*4)		Right	2*USB Type-A (USB3.2 Gen1)
Battery	15.4V/ 4230mAh, 65WH		Left	1*Audio Jack, MIC&Earphone combo
Camera	2MP			1*6in1 Card reader
WiFi	WiFi 802.11 ac/ax 2x2 MIMO	Button	Power Button	
BT	5.2	Key board	US/UK layout, 4 area backlit keyboard support	
Speaker	2*2W	Adapter	180W ,19V AC Adapter	
MIC	2*D-MIC	OS	Windows 11	
Sensors	Hall Sensor	Dimension	359*260*19 mm	
Indicated light	Power/Charge/CapsLock/NumLock	Material	Cover A/ D: Metal, Cover B/ C: Plastic	

MP on 23' Q2

ARN37B Specification

Display	16" 2560*1600 165Hz SRGB 100% 500ntis	I/O Port	Rear	1*DC-IN
CPU	AMD , FP7, Rembrandt+ H/ Phoenix, 45W			2*USB Type-C (USB4)
GPU	AMD Navi24 kicker, S5, R23M-M2			1*HDMI 2.1
Memory	4*LPDDR5 315Ball, 6400MHz, Up to 64GB			1*RJ45 (GLAN/2.5 GLAN)
Storage	2 *M.2 2280 (PCIe*4)		Right	2*USB Type-A (USB3.2 Gen1)
Battery	15.4V/ 4230mAh, 65WH		Left	1*Audio Jack, MIC&Earphone combo
Camera	2MP			1*6in1 Card reader
WiFi	WiFi 802.11 ac/ax 2x2 MIMO	Button	Power Button	
BT	5.2	Key board	US/UK layout, 4 area backlit keyboard support	
Speaker	2*2W	Adapter	180W ,19V AC Adapter	
MIC	2*D-MIC	OS	Windows 11	
Sensors	Hall Sensor	Dimension	359*260*19 mm	
Indicated light	Power/Charge/CapsLock/NumLock	Material	Cover A/ D: Metal, Cover B/ C: Plastic	

I + A

Thin & Light Gaming / Creator

THN32F



Full Metal
18mm



Intel TGL-H45
AMD Navi24



2* FAN
2* D8 heat pipe
95W Thermal



16:10 100% sRGB
Up to 4K
90% S-B ratio



70Wh
Long battery life

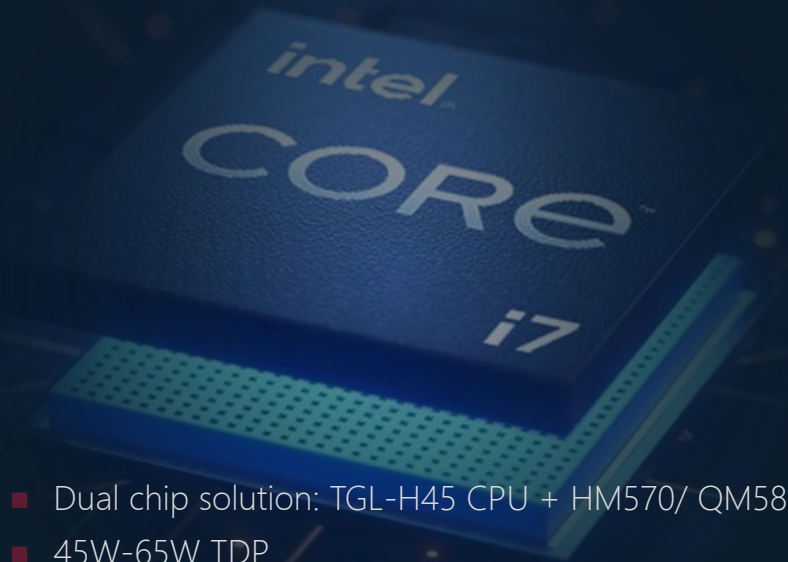


2* PCIe SSD
2* SO-DIMM

Intel CPU TGL-H45



AMD DGPU Navi24



- Dual chip solution: TGL-H45 CPU + HM570/ QM580 PCH
- 45W-65W TDP
- Up to 8C/ 16T
- Base Freq up to 3.2GHz, Max Turbo Freq up to 5GHz
- L3 Cache up to 24MB



- AMD Navi24, S5, R21M-M25 (RX6300M)
- 15-25W TGP
- 12CUs
- 768 stream processors, 1512MHz
- GDDR6, 2GB VRAM, 64GB/s

Gaming

for Casual Gamer



Creating

for Content Creator

MP on 22' Q4

THN32F Specification

Display	16" 2560*1600 165Hz SRGB 100% 500ntis	I/O Port	Left	1*DC-IN
CPU	Intel® TGL-H45, 45W			2*USB Type-C (1*TBT4)
PCH	HM570/ QM580			1*USB-A 3.2 Gen1
GPU	AMD Navi24, S5, R21M-M25 (RX6300M, 25W)			1*HDMI 2.1
Memory	2*DDR4 SO-DIMM 3200MHz, Up to 64GB		Right	1*Audio Jack, MIC&Earphone combo
Storage	2 *M.2 2280 (PCIE*4/SATA)			2*USB Type-A (1*USB3.2 Gen1 + 1*USB2.0)
Battery	15.2V/ 4600mAh, 70WH			1*Micro SD
Camera	2MP			
WiFi	WiFi 802.11 ac/ax 2x2 MIMO	Button	Power Button	
BT	5.2	Key board	US/UK layout, 4 area backlit keyboard support	
Speaker	2*2W	Adapter	120W ,19V AC or PD Adapter	
MIC	2*D-MIC	OS	Windows 11	
Sensors	Hall Sensor	Z Height	< 18mm	
Indicated light	Power/Charge/CapsLock/NumLock	Material	Cover A/ C/ D: Metal, Cover B: Plastic	



Commercial Product

2022Q3

v1.0



COMMERCIAL PIONEER

Notebook

Thin&Powerful

H Series
Discrete Graphics
 $\geq 70W$

Thin&Performance

H Series
UMA
35W~45W

Mainstream

P & U Series
 $\leq 28W$



All-in-One

Performance

Desktop CPU
 $\geq 35W$

Mainstream

Mobile CPU
15W/28W/35W

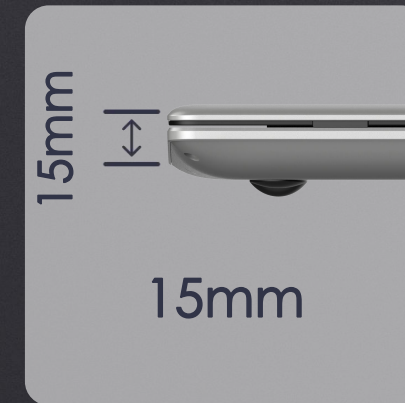




Commercial NoteBook

13.3" Mainstream

xN1G-133M-YD



Family ID Series

13.3"



14"



15.6"



Specification

Tooling Code	xN1G-133M-YD	xN1G-140M5-YD	xN1G-156M-YD
ID			
Status	T1	MP	MP
Platform	Intel TGL-UP3/H35 ADL-U/P	Intel TGL-UP3/H35 ADL-U/P	Intel TGL-UP3/H35 ADL-U/P
LCD	13.3" 16:10 ,up to 4k	14" 16:9 ,up to 4k	15.6" 16:9 ,up to 4k
Thermal	15W, Single FAN	35W, Single FAN	35W, Single FAN
Material	A/C/D Alu, B Plastic	A/C/D Alu, B Plastic	A/C/D Alu, B Plastic
Weight	<1.3 Kg	<1.4Kg	<1.5Kg
Dimension	297.1*212.3*17.5mm	325x214.8x17.9mm	359.5*233.8*18mm
Open Angle	135°	135°	135°
Memory	Onboard / SO-DIMM	Onboard / SO-DIMM	Onboard / SO-DIMM
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD	1*M.2 2280 SSD
Camera	1MP	1MP	1MP/2MP
Battery	7.6V/5000mAh,38Wh	11.4V /5700mAH,65Wh	11.4V /4700mAh 53.58wh
OS	Windows11 / Linux	Windows11 / Linux	Windows11 / Linux
MB I/O	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI	1*DC, 1*USB Type-C, 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD	1*Audio, 2*USB Type-A, 1*Micro SD	1*Audio, 2*USB Type-A, 1*Micro SD
Feature	16:10, Support 2*SO-DIMM, Intel vPro	Support 2*SO-DIMM,Rich interface Intel vPro	Support 2*SO-DIMM,Rich interface Intel vPro

14" Mainstream

xN29-140M-RZ

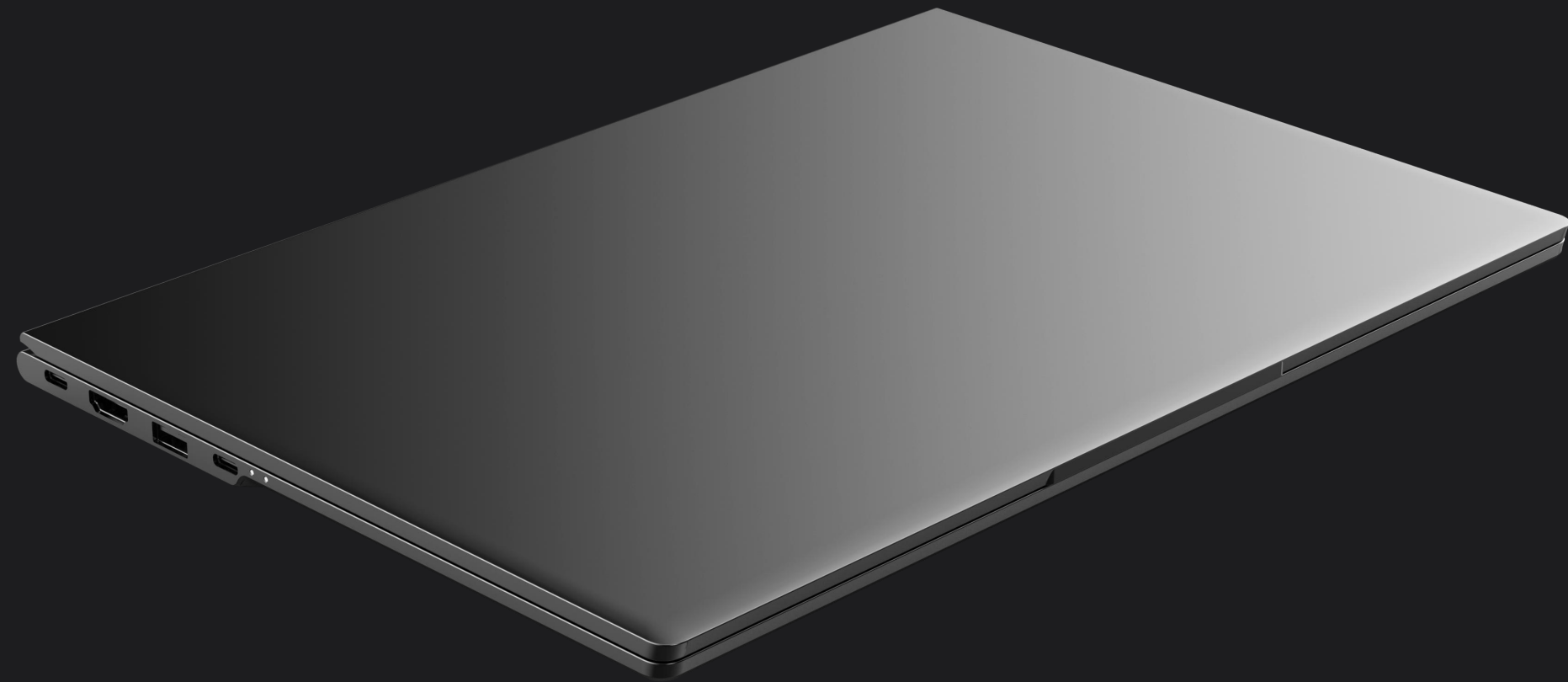
Thin & Performance

xN39-140M-RZ



Lighter

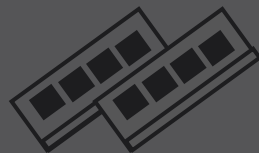
to 1.0Kg



14" , 16:10
Narrow Bezel



Thin & Light
1.0Kg, 14.8mm



2* SO-DIMM



A/C/D Mag
or
A/D Alu, C Mag
Cost Down



Thinner

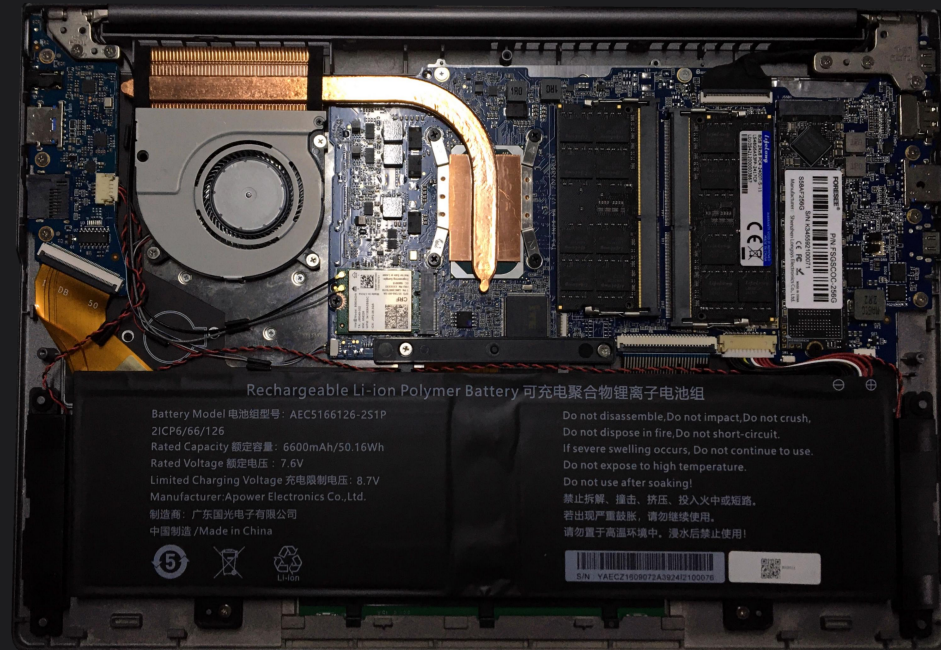
to 14.8mm

Semi-solid casting
High strength
High compactness

Extremely thin

Family Series

xN29 Series



Single Fan
15W

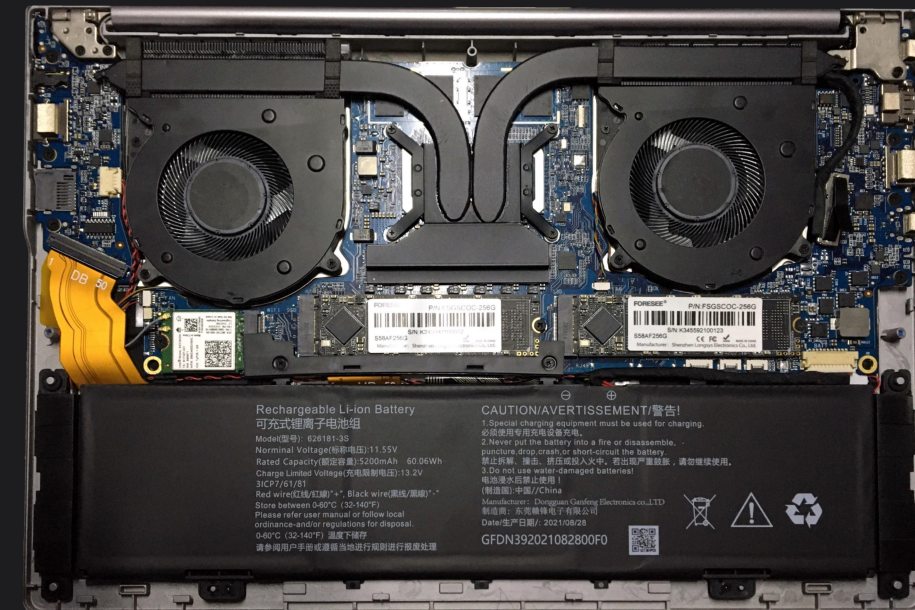


2*SO-DIMM

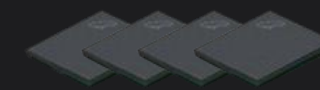


1*M.2 2280 SSD

xN39 Series



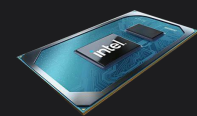
Dual Fan
45W



4*DDR Onboard



2*M.2 2280 SSD



Intel 12Gen CPU



WiFi6 & BT5.1



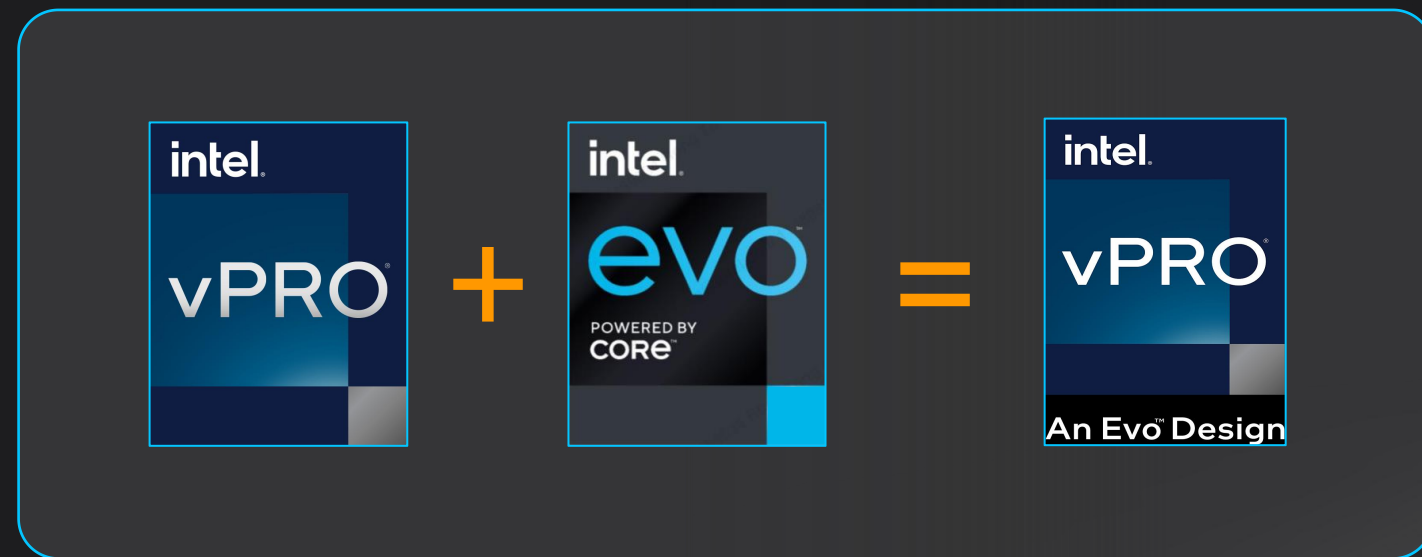
Long Battery Life



Great COMS CAM



HQ Audio



IP3 vPro + EVO Notebook

DN39-140M-RZ



Specification

Tooling Code	xN29-140M-RZ	xN29-140M-SS	xN39-140M-RZ
ID			
Status	MP	T0	T1
Platform	Intel TGL-UP3/H35 ADL-U/P	Intel TGL-UP3/H35 ADL-U/P	Intel TGL-UP3/H35 ADL-U/P/H
LCD	14", 16"10, Up to 2.8K	14", 16"10, Up to 2.8K	14", 16:10, Up to 2.8K
Thermal	15W, Single FAN	15W, Single FAN	45W, Dual FAN
Material	A/C/D Mg-Al Alloy, B Plastic	A/D Alu, C Mg-Al Alloy, B Plastic	A/C Mg-Al Alloy, B Plastic, D Aluminum
Weight	<1.1Kg	<1.3Kg	<1.2Kg
Dimension	311.6*217.8*15.6mm	311.6*217.8*15.6mm	311.6*217.8*17mm
Open Angle	180°	180°	180°
Memory	2*SO-DIMM	2*SO-DIMM	2*SO-DIMM
Storage	1*M.2 2280 SSD	1*M.2 2280 SSD	2*M.2 2280 SSD
Camera	1MP	1MP	1MP
Battery	7.6V/6600 mAh, 50.16Wh	7.6V/6600 mAh, 50.16Wh	11.55V/5050mAh, 58.33Wh
OS	Windows11 / Linux	Windows11 / Linux	Windows11 / Linux
MB I/O	2*USB Type-C, 1*USB Type-A, 1*HDMI	2*USB Type-C, 1*USB Type-A, 1*HDMI	2*USB Type-C (TBT4 Option) , 1*USB Type-A, 1*HDMI
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD	1*Audio, 1*USB Type-A, 1*Micro SD	1*Audio, 1*USB Type-A, 1*Micro SD
Feature	Ultra thin & light, Dual type-C Intel vPro	Dual type-C Intel vPro	Dual type-C, Dual fans, High performance Intel vPro + EVO, Secure-Core PC

14" Thin & Performance

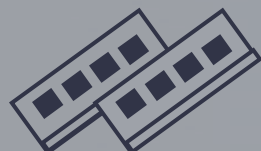
DN50Z-140H-YD



A/D Metal
18mm



Intel Gen12
Core-i3/ i5/ i7



2* SO-DIMM



WiFi6/6E
BT 5.2



Safety



IR CAMERA
Privacy Shutter



Fingerprint
Power Button



Secured core PC



intel vPro



Specification

Tooling Code	DN50Z-140H-YD
ID	
Status	MP
Platform	Intel ADL-U/P
LCD	14", 16:9, Up to 4K
Thermal	28W,Single FAN
Material	A/D Alu,B/C Plastic
Weight	<1.6 Kg
Dimension	324.2*219.7*17.9mm
Open Angle	180°
Memory	2*So-DIMM
Storage	2*M.2 2280 SSD
Camera	1MP
Battery	57Wh
OS	Windows11 / Linux
MB I/O	1*DC Jack, 2*USB Type-C(1*TBT4 + 1*USB4), 1*USB3.2 Gen2, 1*HDMI2.0
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD,1*RJ45
Feature	Dual type-C, Dual SSD, Privacy Switch, Intel vPro, Secure-Core PC

14" Touch & Performance

DN50Z-140HC-YD



16:10
Up to 2.8K



Precise Touch
MPP2.0



Camera Shutter
Kensington Lock



2* SO-DIMM



WiFi6/6E
BT 5.2



Intel vPro
Gen12 Core

Specification

Tooling Code	DN50Z-140HC-YD
ID	
Status	TS
Platform	Intel ADL-U/P
LCD	14 16:10 up to 4k, Touchpanel
Thermal	15W/28W
Material	A/D-Metal, B –Touch panel,C-Plastic
Weight	<1.6kg
Dimension	315.6*229*18.9mm
Open Angle	360°
Memory	2*DDR4 SO-DIMM
Storage	2*M.2 2280 SSD
Camera	2M
Battery	7.6V 7000mAH
OS	Windows 11 or Linux
MB I/O	1*DC Jack, 2*USB Type-C(1*TBT4 + 1*USB4), 1*USB3.2 Gen2, 1*HDMI2.0
DB I/O	1*Audio JACK; 1*USB Type-A; 1*Micro SD
Feature	360° Convertible, Touchpanel, Privacy Switch, Intel vPro

14" Thin & Performance

xN39-140H-YD



A/D Metral
~1.3Kg
~1.7CM



16:10 100% sRGB
Up to 4K
S-B Up to 88%

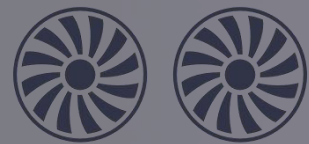


12Gen Intel
Core i5/i7



WiFi6/6E
BT 5.2

Coolfull



2* FAN
2* D8 heat pipe
45W Thermal



60Wh
Long battery life



2* SSD
PCIe4.0 x 4



Jump **Color** Keyboard

Ctrl + S

Always remember to save the file



Specification

Tooling Code	xN39-140H-YD
ID	
Status	MP
Platform	Intel TGL-UP3/H35 ADL-U/P/H
LCD	14", 16"10, Up to 4K
Thermal	45W,Sing,Dual FAN
Material	A/D Alu,B/C Plastic
Weight	<1.4 Kg
Dimension	313.8*222*17.87mm
Open Angle	180°
Memory	on board
Storage	2*M.2 2280 SSD
Camera	1MP
Battery	11.55V/5200mAh, 60Wh
OS	Windows11 / Linux
MB I/O	2*USB Type-C(1 TBT4 option), 1*USB Type-A, 1*HDMI,Smart Card
DB I/O	1*Audio, 1*USB Type-A, 1*Micro SD
Feature	Ultra thin & light, Dual type-C, Dual SSD

16" Thin & Powerful

xN32-160M-SS



Full Metal
18mm



Intel ARC
AMD Navi24



2* FAN
2* D8 heat pipe
95W Thermal



16:10 100% sRGB
Up to 4K
90% S-B ratio



70Wh
Long battery life



2* PCIe SSD
2* SO-DIMM

intel[®]
ARC™

Gaming

Working

Xe Super
Sampling



Specification

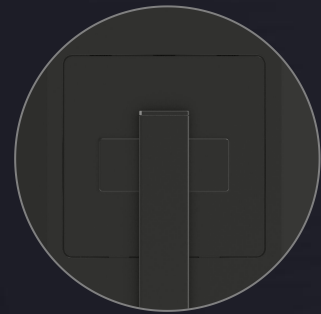
Tooling Code	xN32-160M-SS
ID	
Status	TS
Platform	Intel ADL-H + DG2 SKU4/SKU5 (DN32G) TGL-H45 + DG2 SKU4/SKU5 (THN32G)
LCD	16" 16:10,up to 4K
Thermal	95W, Dual FAN
Material	A/C/D Alu,B Plastic
Weight	<1.5Kg
Dimension	H<18mm
Open Angle	135°
Memory	2*So-DIMM
Storage	2*M.2 2280 SSD
Camera	2MP
Battery	11.4V/6140mAh,70WH
OS	Windows11
MB I/O	2*USB Type-C (1*TBT4), 1*USB Type-A, 1*HDMI2.0
DB I/O	1*Audio, 2*USB Type-A
Feature	Intel DG2 discrete graphics,Dual type-C Intel vPro



Commercial All-in-One

Transformer AIO

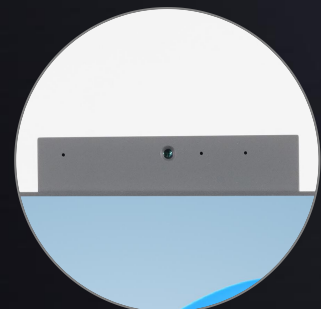
xA170 Series



Vesa Mount
Changeable Base



ODD



Pop-up Camera



Fingerprint Power Button



USB Type-C



Rotatable
Liftable

xA170

215P/238P/270P-HW



Liftable Base



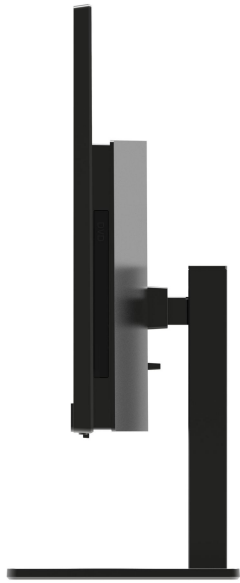
Common Base

Support ODD, Vesa, Changeable Base, Pop-up Camera, Fingerprint

Specification			
LCD	21.5"/23.8"/27" FHD 60Hz		
Viewing Angle	±178°		
Platform	Intel TGL-UP3/H35 ADL-U/P/H		
CPU TDP	≤65W		
Material	Plastic		
Weight	7.5Kg		
Packing Size	600*205*434mm		
I/O Ports	1*DC JACK		
	5*USB Type-A + 1*USB Type-C		
	1*SD Card		
	1*ODD		
	1*RJ45		
	1*HDMI		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
Features	Camera	Vesa	TP
	Y	Y	Y

xA170

238P2-XB



Liftable Base



Common Base

Support ODD, Vesa, Changeable Base, Camera Privacy Shutter

Specification			
LCD	23.8" FHD 60Hz, 16:9		
Viewing Angle	±178°		
Platform	Intel TGL-UP3/H35 ADL-U/P/H		
CPU TDP	≤65W		
Material	Plastic		
Weight	~6Kg		
Packing Size	~600*210*535mm		
I/O Ports	1*DC JACK		
	6*USB Type-A		
	1*RJ45		
	1*HDMI		
	1*VGA/ COM		
	1*Earphone + 1*MIC_IN		
	1*ODD (Option)		
	1*SD Card		
Features	Camera	Vesa	TP
	Y	Y	/



Mini PC Roadmap & Catalog

2022 Q3

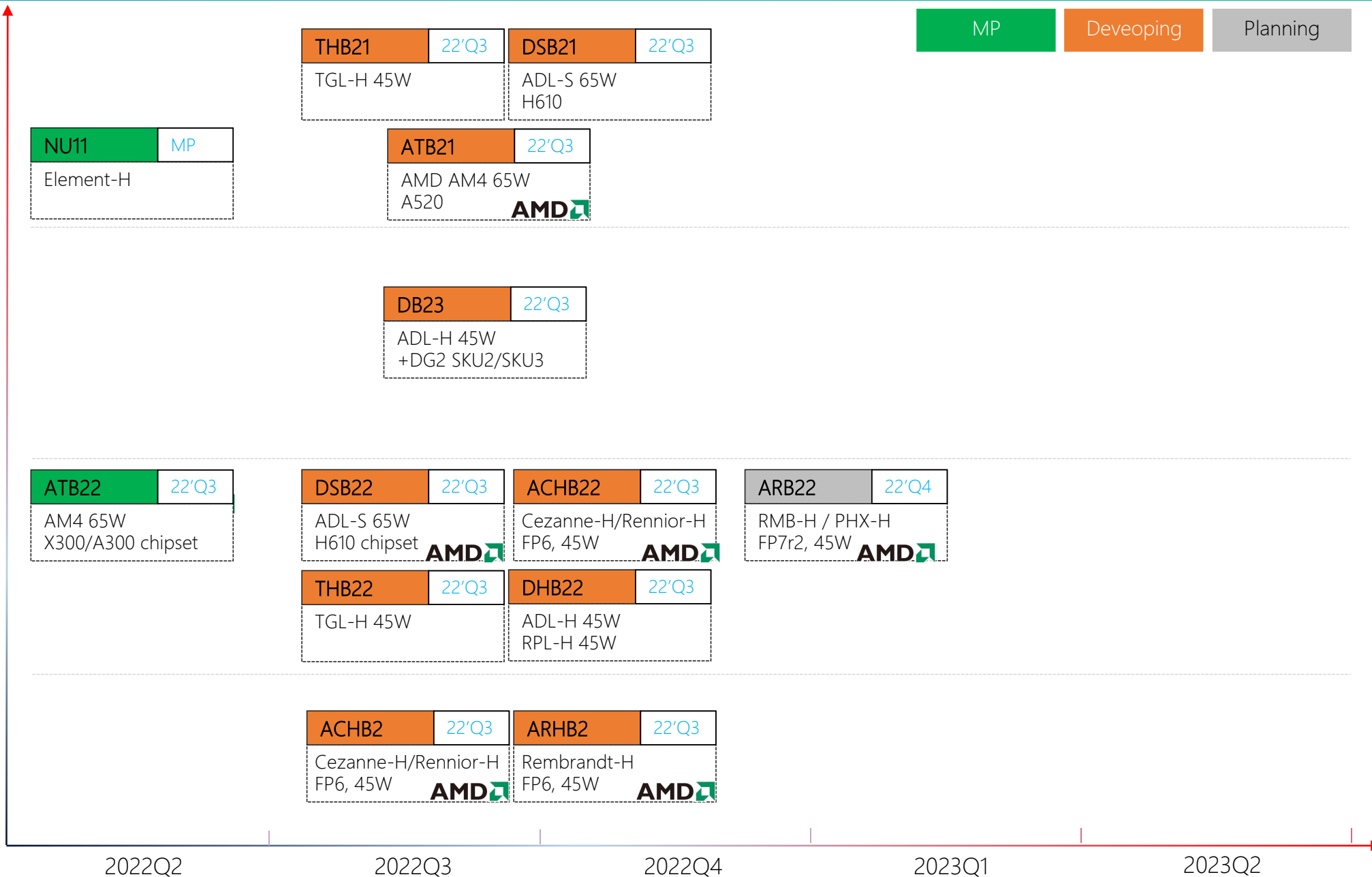
v1.0

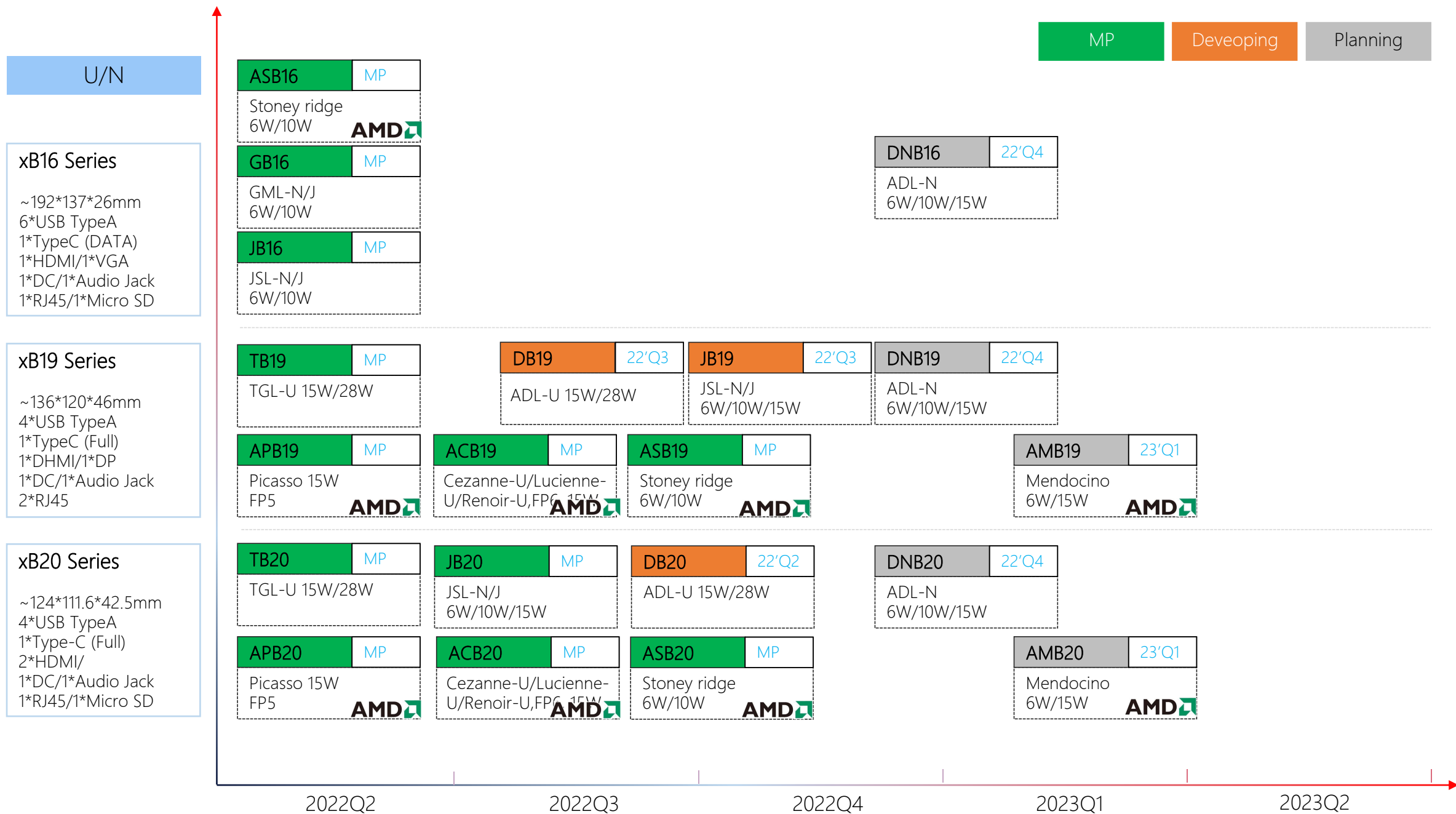
01 Mini PC Roadmap

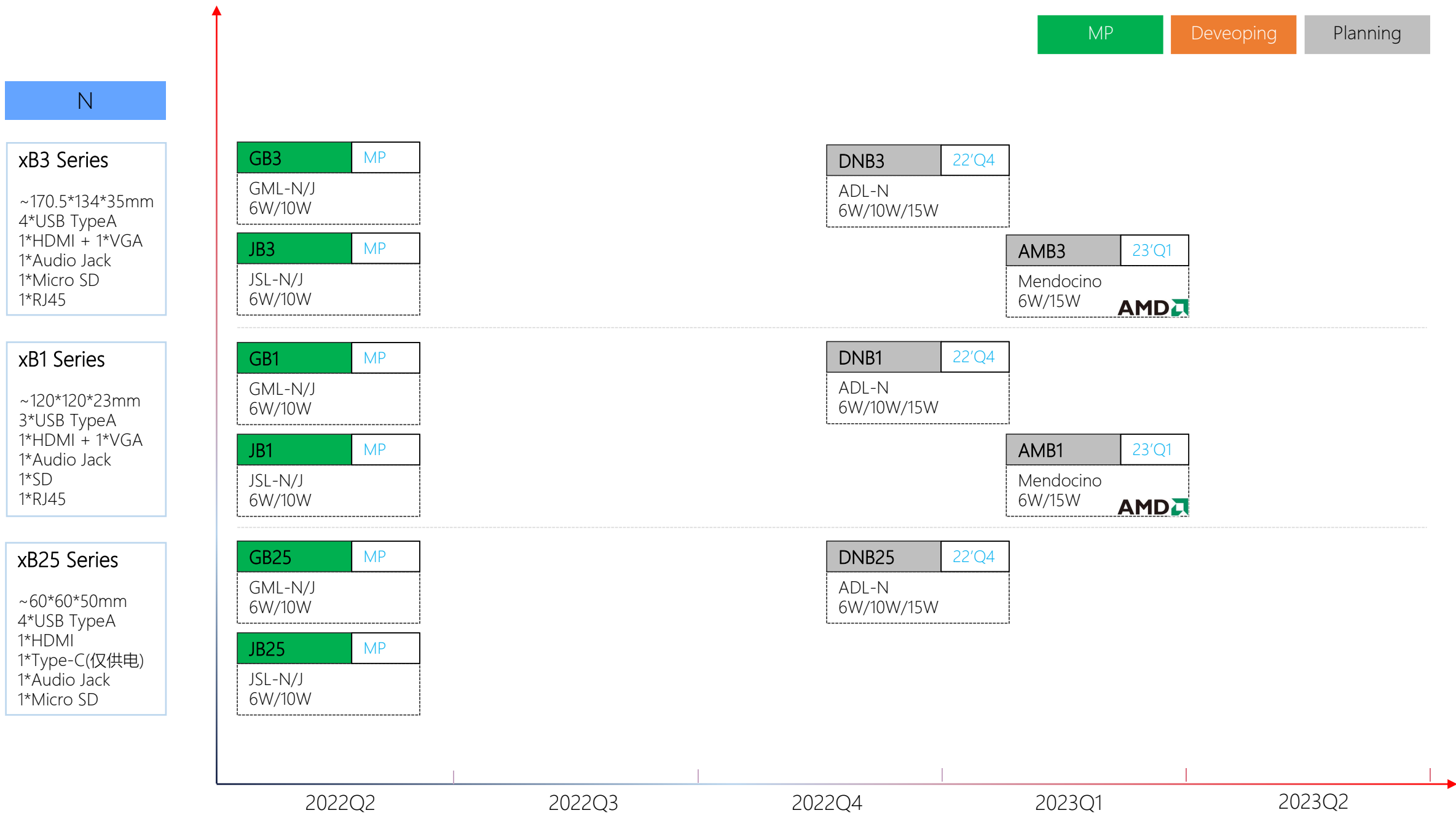
1 Mini PC PCBA Roadmap



S + DT dGPU
xB21 Series ~250*240*120mm 6*USB TypeA 1*TypeC (Full) 1*HDMI/1*DP 1*ACin/4*Audio Jack 2*RJ45
H +NB dGPU
xB23G Series 201*182.95*49.6mm 5*USB TypeA 1*TypeC (Full) 2*HDMI/2*DP 1*DC/1*Audio Jack 1*Earphone+1*MIC 2*RJ45
S/H
xB22 Series ~150*150*61mm 4*USB TypeA 1*TypeC (Full) 1*HDMI/1*DP 1*DC/1*Audio Jack 2*RJ45
xB2 Series ~145*155*38mm 4*USB TypeA 2*HDMI/2*DP 1*DC/1*Audio Jack 1*RJ45







2 Mini PC Tooling

400W	165W	65W		28W
xB21 Series	xB23 Series	xB22 Series	xB2 Series	xB16 Series
ID图  Metal/Plastic ~250*240*120 mm	ID图  Metal 201*182.95*49.6mm	MP  Plastic xB22-P01-SF 150*150*61mm ID图  Plastic 45W 150*150*42mm	ID图  Plastic xB2-P01 145*155*38mm	T1  Plastic xB16-P01-KLM 211.9*169.7*26mm
intel. AMD	intel.	intel. AMD 兆芯	AMD	intel.

28W		10W		6W
xB19 Series	xB20 Series	xB3 Series	xB1 Series	xB25 Series
MP  Plastic xB19-P01-SF 127*127*45mm	MP  Metal/Plastic xB20-H01-SM 124*111.6*42.5mm	MP  Plastic xB3-P01-DST 170.5*134*35mm	MP  Plastic xB1-P01-SM 120*120*25mm	MP  Metal/Plastic xB25-H01-SF 65*65*43.5mm
MP  Plastic xB19-P01-TJ 128*128*45mm	MP  Plastic xB20-P01-CJ 124.5*112.2*43.9mm	ID手板  Plastic 170.5*134*35mm	MP  Metal xB1-M01-SF 120*120*23mm	
ID图  Plastic 128*128*45mm			MP  Plastic SI Tooling 120*120*27mm	
intel. AMD 兆芯	intel. AMD 兆芯	intel. AMD	intel. AMD	intel. AMD

02 Mini PC Catalog

xB21 Series

Design



Metal/Plastic
~250*240*120 mm

Specifications

Platform	Intel: ADL-S + H670 (DSB21) 65W TGL-H45 + H510 (THB21) 45W AMD: AM4 + A520 (ATB21) 65W
DGPU	PCIE Discrete Graphics Card
Memory	2*SODIMM
Storage	1*M.2 2280 SATA SSD 1*2.5inch SATA HDD
WiFi/BT	Support
Adapter	Built-in power supply (Flex)
Support OS	Windows / Linux
I/O Ports	6*USB TypeA
	1*TypeC (DP,PD,DATA)
	1*HDMI
	1*DP
	1*AC IN
	4*Audio Jack
	2*RJ45

xB23G Series

Design



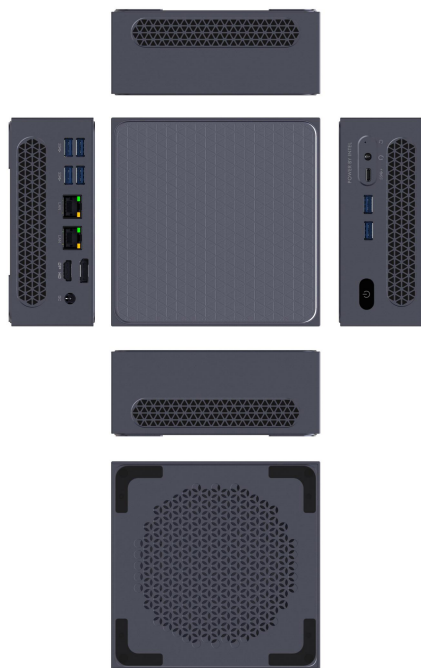
Metal
201*182.95*49.6mm

Specifications

Platform	Intel ADL-H (DHB23) 45W
DGPU	DG2 SKU2/SKU3
Memory	2*SODIMM
Storage	1*M.2 2280 SSD 1*M.2 2242 SSD 1*2.5inch HDD
WiFi/BT	Support
Adapter	9V/7.89A 150W
Support OS	Windows / Linux
I/O Ports	5*USB TypeA
	1*TypeC (DP,PD,DATA)
	2*HDMI
	2*DP
	1*DC
	1*Audio Jack
	1*Earphone+1*MIC
	2*RJ45

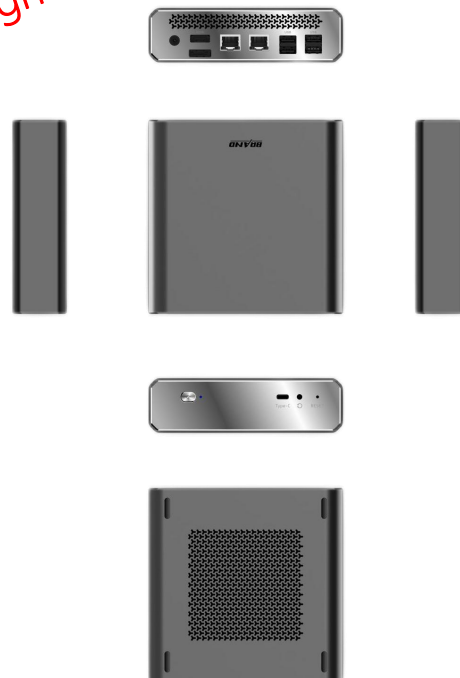
xB22 Series

MP



Plastic xB22-P01-SF
150*150*61mm

Design



Plastic xB22
150*150*42mm

Specifications

Platform	Intel: ADL-S + H610 (DSB22) 65W TGL-H45 + HM570(THB22) 45W ADL-P (DHB22) 54W AMD: AM4 + X300/A300 (ATB22) 65W FP6-H (ACHB22) 45W 兆芯: KX-6000 (ZEB22) 65W
Memory	2*SODIMM
Storage	1*M.2 2280 SSD 1*M.2 2242 SSD 1*2.5inch HDD
WiFi/BT	Support
Adapter	19V/7.89A 150W
Support OS	Windows / Linux
I/O Ports	4*USB TypeA 1*TypeC (DP,PD,DATA) 1*HDMI 1*DP 1*DC 1*Audio Jack 2*RJ45

xB2 Series

Design



Plastic
145*155*38mm

Specifications

Platform	AMD: FP6-H (ACHB2) 45W FP7-H (ARHB2) 45W
Memory	2*SODIMM
Storage	1*M.2 2280 SSD 1*M.2 2242 SSD 1*2.5inch HDD
WiFi/BT	Support
Adapter	19V/7.89A 150W
Support OS	Windows / Linux
I/O Ports	4*USB TypeA
	2*HDMI
	2*DP
	1*DC
	1*Audio Jack
	1*RJ45

xB19 Series

MP



Plastic xB19-P01-SF
127*127*45mm

MP



Plastic xB19-P01-CJ
128*128*45mm

Specifications

Platform	Intel: ADL-U/P (DB19) 15W/28W TGL-UP3/H35 (TB19) 15W/28W AMD: Picasso/Dali (APB19) 6W/15W Cezanne/Lucinne/Renoir (ACB19) 15W Stoney Ridge (ASB19) 15W 兆芯: KX-6000 (ZEB19) 28W
Memory	Onboard or 2*SODIMM
Storage	1*M.2 2280 SSD 1*2.5inch HDD
WiFi/BT	Support
Adapter	19V/3.42A 65W
Support OS	Windows / Linux
I/O Ports	4*USB TypeA
	1*TypeC (DP,PD,DATA)
	1*HDMI
	1*DP
	1*DC
	1*Audio Jack
	2*RJ45

xB20 Series

MP



Metal/Plastic xB20-H01-SM
124*111.6*42.5mm

MP



Plastic xB20-P1-CJ
124.5*112.2*43.9mm

Specifications

Platform	Intel: ADL-U/P (DB20) 15W/28W JSL (JB20) 6W/10W TGL (TB20) 15W/28W CML/CFL/WHL (CB1D) 15W/28W AMD: Picasso/Dali (APB20) 6W/15W Cezanne/Lucienne/Renoir (ACB20) 15W Stoney Ridge (ASB20) 15W 兆芯: KX-6000 (ZEB20/ ZEB1V) 28W
Memory	Onboard or 2*SODIMM
Storage	1*M.2 2280 SSD 1*2.5inch HDD
WiFi/BT	Support
Adapter	19V/3.42A 65W
Support OS	Windows / Linux
I/O Ports	4*USB TypeA 1*Type-C (DP,PD,DATA) 2*HDMI 1*DC 1*Audio Jack 1*RJ45 1*Micro SD

xB16 Series

T1



Plastic xB16-P01-KLM
211.9*169.7*26mm

Specifications

Platform	Intel: JSL (JB16) 6W/10W GLK (GB16) 6W/10W AMD: Stoney Ridge (ASB16) 15W
Memory	Onboard or 1*SODIMM
Storage	1*M.2 2280 SSD 1*2.5inch HDD
WiFi/BT	Support
Adapter	19V/3.42A 65W
Support OS	Windows / Linux
I/O Ports	6*USB Type-A
	1*TypeC
	1*HDMI
	1*VGA
	1*DC
	1*Audio Jack
	1*RJ45

xB1 Series

MP



xB1-P01-SM
120*120*25mm

MP



xB1-M01-SF
120*120*23mm

MP



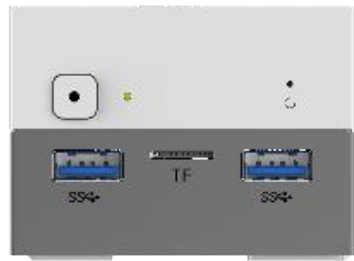
SI Tooling
120*120*27mm

Specifications

Platform	Intel: JSL (JB1) 6W/10W GLK (GB1) 6W/10W
Memory	Onboard
Storage	1*eMMC 1*M.2 2242 SSD
WiFi/BT	Support
Adapter	12V/2A 24W
Support OS	Windows / Linux
I/O Ports	3*USB Type-A
	1*HDMI
	1*VGA
	1*DC
	1*Audio Jack
	1*RJ45
	1*SD Card

xB25 Series

MP



Metal/Plastic
60*60*50mm

Specifications

Platform	Intel: JSL (JB25) 6W/10W GLK (GB25) 6W/10W
Memory	Onboard
Storage	1*M.2 2242 SSD
WiFi/BT	Support
Adapter	12V/2A 24W
Support OS	Windows / Linux
I/O Ports	4*USB Type-A
	1*Type-C
	1*HDMI
	1*VGA
	1*DC
	1*Audio Jack
	1*TF Card

xB3 Series

MP



Plastic xB3-DST
170.5*134*35mm

Specifications

Platform	Intel: JSL (JB3B) 6W/10W GLK (GB3) 6W/10W
Memory	Onboard
Storage	1*eMMC 1*SATA HDD 1*M.2 2242 SSD
WiFi/BT	Support
Adapter	12V/2A 24W
Support OS	Windows / Linux
I/O Ports	4*USB Type-A
	1*Type-C
	1*HDMI
	1*VGA
	1*DC
	1*Audio Jack
	1*RJ45



IP3 OPS (C) Roadmap&Catalog

2022 Q3

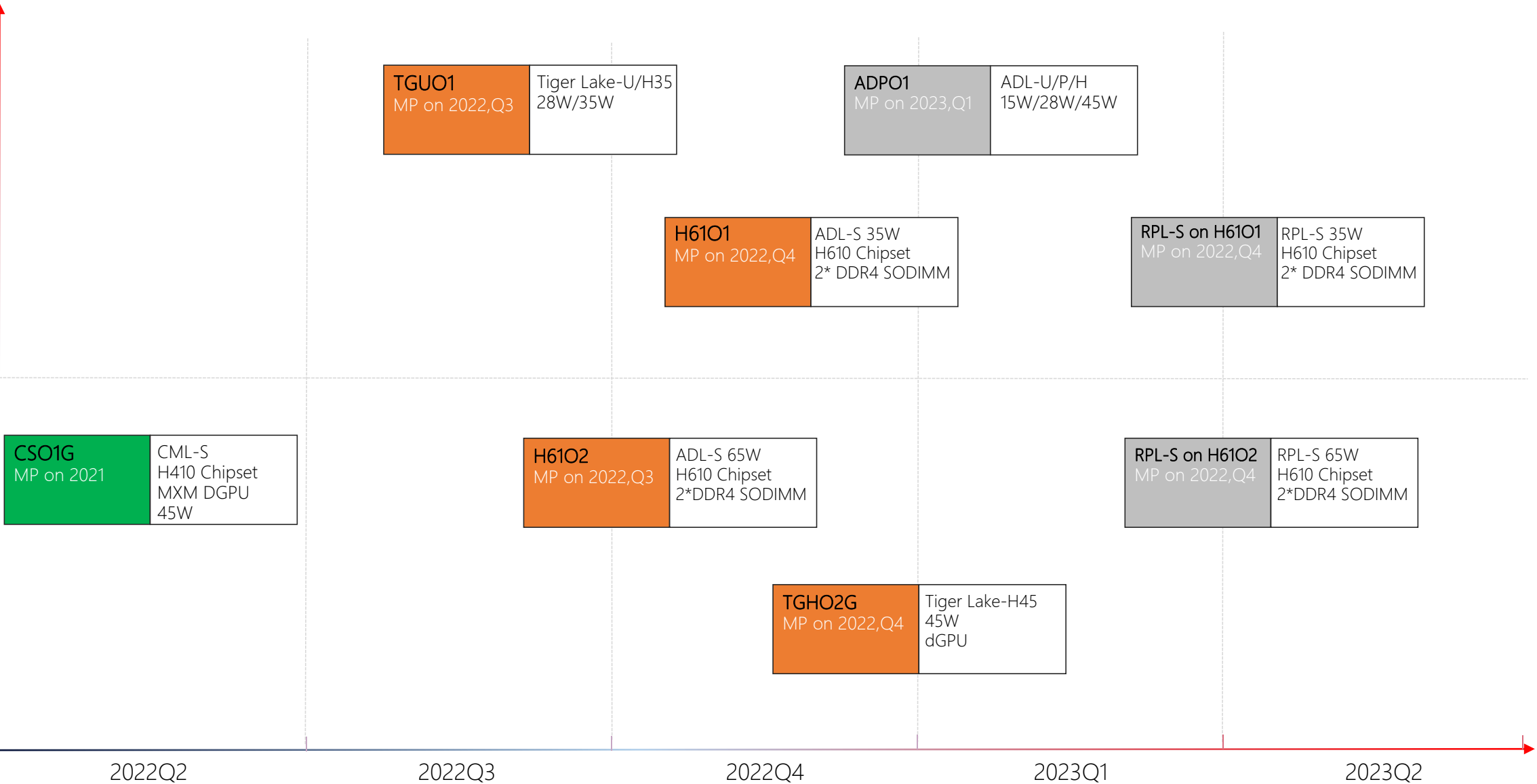
MP

Deveoping

Planning

OPS

OPS-C



OPS-C		CSO1G		MP	CSO1G Specification	
				MP	CPU	Intel Comet Lake-S (65W)
					Chipset	H410/B460
Rear I/O					DGPU	MXM Grphic card (support up to 75W)
					Memory	2*DDR4 SO-DIMM, 2666MHz,Up to 64GB
Front I/O					Storage	1*M.2 2280 SATA/ PCIe SSD 1*2.5 inch SATA HDD
					WiFi/BT	1*M.2 2230 PCIe
					Watchdog	Interrupt, system reset/225 level timing interval
					vPro	NA
					Size	195mm x 180mm x 30mm
					Power	12-19V DC IN
					OS	Windows/Linux
					Expansion	1 x M.2 2230 PCIEX1 (Wifi) 1X M.2 2280 SATA& NVME (swithc by BOM option) (SSD)

OPS-C		H61O2	Developing	H61O2 Specification	
Rear I/O	1*DC_Jack			CPU	Intel Alder Lake-S (65W)
	1*OPS Interface (80Pin OPS-C standard definition interface) (HDMI2.0 support 4K@60Hz, DP1.4 support 8K@60Hz)			Chipset	H610/ B660/ Q670
	1*Micro SIM			Memory	2*DDR4 SO-DIMM, 3200MHz,Up to 64GB
Front I/O	Display	1*HDMI 1.4 (Max4096x2160@30Hz)		Storage	1*M.2 2280 PCIE 3.0 X4 + SATA SSD
	USB	3*USB 2.0 + 2*USB3.2 Gen1 + 1*USB3.2 Gen1 Type-C (DP1.2/ Data/ 15W PD)			1*M.2 2280 PCIE 4.0 X4 SSD
	Audio	1*LINE_OUT + 1*MIC_IN			1*2.5inch SATA HDD
	LAN	1*RJ45(GLAN)		WiFi/BT	1*M.2 2230 PCIe+CNVi
	COM	1*COM (Option)		4G	1*M.2 3042 4G module
	Wifi	2*Atana Connector		Watchdog	Support
	Button	1*Reset +1*Clear COMS(option) +1*Recover +1*Power Button		vPro	Option (Q670 only)
	LED	1*Power LED + 1*HDD/SSD LED		Size	195 x 180 x 30 mm
			Power	12-19V DC IN	
			OS	Windows/Linux	
			Expansion	1*M.2 2230 PCIe+CNVi	
				1*M.2 3042 4G module	
				1*M.2 2280 PCIE 3.0 X4 + SATA SSD	
				1*M.2 2280 PCIE 4.0 X4 SSD	

OPS		TGUO1	Pre-MP
		  	
Rear I/O		1*DC_Jack	
		1*OPS Interface (80Pin OPS-C standard definition interface) (HDMI2.0 support 4096 x 2160@60Hz, DP1.4 support 5K@60Hz)	
		1*Micro SIM	
Front I/O	Display	1*HDMI 1.4	
	USB	2*USB 2.0 + 2*USB3.2 Gen2 + 1*USB3.2 Type-C (DP1.2/ Data/ 15W PD)	
	Audio	1*LINE_OUT + 1*MIC_IN	
	LAN	1*RJ45(GLAN)	
	COM	1*RS232, DB9 (Option)	
	Wifi	2*Atana Connector	
	Button	1*Reset + 1*Power Button	
	LED	1*Power LED + 1*HDD/SSD LED	

TGUO1 Specification	
CPU	Intel Tiger Lake-UP3/H35 (35W)
Memory	2*DDR4 SO-DIMM, 3200MHz,Up to 64GB
Storage	1*M.2 2280 PCIE 4.0 X4 SSD
	1*M.2 2242 SATA SSD
WiFi/BT	1*M.2 2230 PCie+USB+CNVi
5G	1*M.2 3052 PCie+USB 5G module
GPS	Option
Watchdog	Support
TPM	Support TPM2.0
vPro	Option
Size	119 x 180 x 30 mm
Power	12-19V DC IN
OS	Windows/Linux
Expansion	1 x M.2 2230 PCIE+USB (Wifi)
	1 x M.2 23052 PCIE+USB (5G)
	1*M.2 2280 PCIE 4.0 X4 (SSD)
	1*M.2 2242 SATA (SSD)

OPS		TGHO2G		Developing		TGHO2G Specification		
						CPU	Intel Tiger Lake-H45 (45W)	
						Chipset	HM570/QM 580	
						DGPU	MXM Grphic card (support up to 75W)	
						Memory	2*DDR4 SO-DIMM, 3200MHz,Up to 64GB	
						Storage	1*M.2 2242/2260/2280 PCIE 4.0 X4 SSD 1*M.2 2242/2260/2280 PCIE/SATA SSD	
							1*2.5" SATA HDD/SSD	
						WiFi/BT	1*M.2 2230 PCIe+USB+CNVi	
						TPM	Support TPM2.0	
						vPro	Option	
						Size	195 x 180 x 30 mm	
						Power	12-19V DC IN	
						OS	Windows/Linux	
Rear I/O	1*DC_Jack					Expansion	1*M.2 2230 PCIE+USB (Wifi)	
	1*OPS Interface (80Pin OPS-C standard definition interface) (HDMI from dGPU/ iGPU , MXM Port B : HDMI , Port A DP)						1*M.2 2242/2260/2280 PCIE/SATA (SSD)	
Front I/O	Display	1*HDMI 1.4 + 1*DP 1.2a					1*M.2 2242/2260/2280 PCIE 4.0 X4 (SSD)	
	USB	2*USB 2.0 + 4*USB3.2 Gen2 + 1*USB3.2 Gen1 Type-C (Data/ 15W PD)					1*M.2 2242/2260/2280 PCIE 4.0 X4 (SSD)	
	Audio	1*LINE_OUT + 1*MIC_IN					1*MXM Slot	
	LAN	1*RJ45(GLAN)						
	COM	1*RS232, DB9 (Option)						
	Wifi	2*Atana Connector						
	Button	1*Reset + 1*Power Button						
LED	1*Power LED + 1*HDD/SSD LED							



IP3 Tablet Product Catalog

2022 Q3
v1.0

01 Tablet Roadmap

1 Tablet PCBA Roadmap



MP

Deveoping

Planning

TDP

15W

xP13

TP13 MP
TGL-U 15W

DP13 22'Q3
ADL-U 15W
RPL-U 15W

DMP13 22'Q4
ADL-M 12W

JP13 22'Q3
JSL-N/J
6W/10W/15W

AMP13 22'Q4
Mendocino
FT6, 4W

4W

xP15

DNP15C 22'Q4
ADL-N 4W
Costdown

AMP15 23'Q1
Mendocino
FT6, 4W **AMD**

DNP15 22'Q4
ADL-N 4W

xP2

GP2 MP
GLK/GLK-R 4W

JP2 22'Q1
JSL-N 4W

DNP2 23'Q1
JSL-N 4W

AMP2 23'Q1
Mendocino
FT6, 4W **AMD**

2022Q2

2022Q3

2022Q4

2023Q1

2023Q2

4W

15W

xP2 Series

10.1" MP



xP2-101H-TLX
框贴+铝片塑框/U型支架

10.1" 22'Apr



xP2-101P-HLT 底座版
Drop 70cm

11.6" MP



xP2-116H-JGX
框贴+铝片塑框/U型支架

10.1" 22'Q3



xP2-116P
防跌落70cm+IP54+皮套键盘

intel

xP15 Series

10.1" 22'May



xP15-101H-TLX
框贴+铝片塑框
背折式皮套键盘

11.6" 22'Jun



全贴+铝冲弧边
背折式皮套键盘

12.6" 22'Apr



xP15-126M-TLX
全贴+铝冲弧边
背折式皮套键盘

11.5" 22'Q3 OLED



11.5" OLED
全贴+CNC/玻璃背板
悬浮键盘

intel AMD

xP13 Series

10.95" MP



xP13-110H-KB
悬浮键盘

13.3" MP



xP13-133M-RZ
全贴+镁铝
片型支架

intel

02 Tablet Catalog

xP2

101H-TLX

MP



Specification

Platform	Intel JSL/ GLK 4W
LCD	10.1" HD/FHD, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Metal+Plastic
Weight	<600g
Dimension	255* 167*9.5 mm
Camera	Front_2MP, Rear_2MP/5MP
Battery	7.6V/3150mAh, 24Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	1*USB Type-A
	1*USB Type-C
	1*DC JACK
	1*Micro HDMI
DB I/O	1*Audio JACK
	1*TF Card + 1*SIM (Optional)

xP2

116H-JGX

MP



Specification

Platform	Intel JSL/ GLK 4W
LCD	11.6" HD/FHD, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Metal+Plastic
Weight	<800g
Dimension	290*178.9*9mm
Camera	Front_2MP, Rear_2MP/5MP
Battery	7.6V, 5000mA 38Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	1*USB Type-A
	1*USB Type-C
	1*DC JACK
	1*Micro HDMI
DB I/O	1*Audio JACK
	1*USB Type-A
	1*TF Card + 1*SIM (Optional)

xP2

101P-HLT

T1



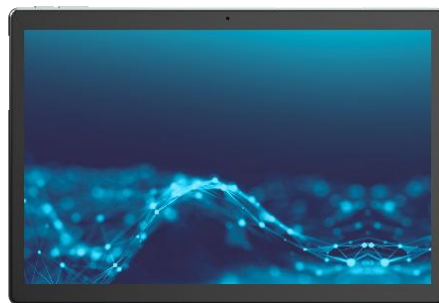
Specification

Platform	Intel JSL/ GLK 4W
LCD	11.6" HD/FHD, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Plastic
Weight	<600g
Dimension	253*173*10.75mm
Camera	Front_2MP, Rear_2MP/5MP
Battery	7.6V/3800mAh, 28.8Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	1*USB Type-A
	1*USB Type-C
	1*DC JACK
	1*Micro HDMI
DB I/O	1*Audio JACK
	1*TF Card + 1*SIM (Optional)
Feature	70cm防跌落

xP12

133M-RZ

T1



Specification

Platform	Intel ADL-P/ TGL-UP3/ JSL 15W
LCD	13.3" Up to 4K, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Magnesium alloy
Weight	<900g
Dimension	310*212*10.6mm
Camera	Front_2MP, Rear_2MP/5MP
Battery	7.6V, 5000mA 38Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	2*USB Type-C (TBT4.0)
	1*Micro HDMI
DB I/O	1*Audio JACK
	1*USB Type-A
	1*TF Card/ SIM

xP13

110H-KB

MP



Specification

Platform	Intel ADL-P/ TGL-UP3/ JSL 15W
LCD	10.95" 1200*2000, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Metal/ Plastic
Weight	550g
Dimension	163*10.58*59mm
Camera	Front_2MP, Rear_2MP/5MP
Battery	7.6V, 3900mA 30Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	2*USB Type-C (TBT4.0)
	1*Micro HDMI
DB I/O	1*Audio JACK
	1*USB Type-A
	1*TF Card

xP15

126M-TLX

T1



Specification

Platform	Intel ADL-N/ TGL-UP3/ JSL 4W
LCD	12.6" 2880*1920, Touch panel
Memory	Onboard
Storage	1*M.2 2280 PCIe/SATA SSD
Material	Metal
Weight	<900g
Dimension	310*212*10.6mm
Camera	Front_5MP, Rear_8MP
Battery	11.55V/4850mAh, 56.01Wh
OS	Windows 11/ Linux
Keyboard	Detachable
MB I/O	2*USB Type-C
	1*Micro HDMI
	1*Micro SD/ Nano SIM