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NANJING
MAXON O.E. TECH.CO., LTD

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Company Profile

Link of Your Think

Nanjing MAXON O.E. TECH. CO., LTD was established in 2012. It's now headquartered in Nanjing, China.

Our branch office MAXON COMMUNICATION LIMITED located in Hong Kong helps us get better worldwide connections.

Our main product line consists of Industrial Wireless Module/access point/Bridge/WiFi Embedded Motherboard; explosion-proof AP/bridge/router/DTU; Industrial ethernet switches; serial device servers with FCC and CE certifications.

Our slogan is "Link Of Your Think". MAXON always aim at creating good quality, beyond expectation and cost-effective industrial communication products with our smart solutions.

With our strong R&D team in this area, we are now becoming a leading global player in design and manufacturing in the wireless industry.

Now MAXON solutions are realised by several world's well-known enterprises and national public transportation systems in many countries and regions all over the world.

Electricity
Water Conservancy
Rail Transit
Energy
Security & Protection
Logistics
Intelligent Transportation
Iron & Steel

Maxon now has realised many cases all over the world, such as our products being used in Dubai Airport, radar monitoring projects in Singapore, the update of the Taiwan railway project, and the Chinese metro projects in Hangzhou, Beijing, Wuxi and other big cities.

With the know-how and considerable experience, we are gladly providing you with MAXON's professional tech advice.

Check out our website, social media and online sales platforms for more details.

Enterprise Qualification and Honor

High-tech Enterprise Certifications
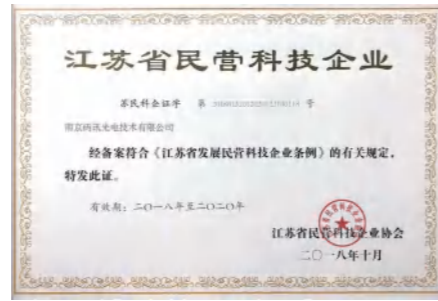
Jiangsu Province Technology Private Enterprise Certifications

Explosion-proof Certifications

Intellectual Property Management System Certification

ISO Environmental Management System Certification

ISO Quality Management System Certification

ISO Occupational Health and Safety Management System Certification

Intellectual Property and Certification

Invention Patents

Computer Software Copyright Registration Certifications

Industrial Wireless Products

· Embedded Wireless Module

· Wireless Motherboard

· Industrial Wireless AP/Bridge

· Explosion-proof Wireless Bridge

· Explosion-proof Router/Gateway

· Wireless LAN Controller

SAFETY & STABILITY
Industrial Wireless Communication Solutions

MAXON

Embedded Wireless Module

MX520VX Dual-Band 2x2 802.11ac Module

· 2x2 MIMO technology
· MiniPCI Express 1.1 interface
· Supports physical transfer speeds up to 867Mbps
· Qualcomm-Atheros QCA9880
· 2.4GHz maximum output power consumption 21dBm (Per chain)
· 5GHz maximum output power consumption 20dBm (Per chain)
· Compatible with IEEE 802.11ac and backward compatible with 802.11a/b/g/n

Type	Wireless module
Chipset	QCA9880
Standard	IEEE 802.11a/b/g/n/ac
MU-MIMO	2x2
Output (Per chain)	21dBm
Frequency Range	2412~2472MHz, 5180~5825MHz
Throughput	867Mbps
Interface	1x Mini PCIe 1.1
Antenna Connector	2x U.FL
Bandwidth	20/40/80/MHz
Power Consumption	≤3.5W
Temperature Range	Operating: -20~70℃/-4~158°F Storage: -40~90℃/-40~194°F
Operating Humidity	-5%~95% (non-condensing)
Certifications	CE/FCC/RoHS
Dimensions	51x30x32mm

MX530VX Dual-Band 3x3 802.11ac Module

· 3x3 MIMO spatial multiplexing technology
· MiniPCI Express 1.1 interface
· Supports physical transfer speeds up to 1.3Gbps
· Qualcomm-Atheros QCA9880
· 2.4GHz maximum output power consumption 21dBm (Per chain)
· 5GHz maximum output power consumption 20dBm (Per chain)
· Compatible with IEEE 802.11ac and backward compatible with 802.11a/b/g/n

Type	Wireless module
Chipset	QCA9880
Standard	IEEE 802.11a/b/g/n/ac
MU-MIMO	3x3
Output (Per chain)	21dBm
Frequency Range	2412~2472MHz, 5180~5825MHz
Throughput	1300Mbps
Interface	1x Mini PCIe 1.1
Antenna Connector	3x U.FL
Bandwidth	20/40/80/MHz
Power Consumption	≤5W
Temperature Range	Operating: -20~70℃/-4~158°F Storage: -40~90℃/-40~194°F
Operating Humidity	-5%~95% (non-condensing)
Certifications	CE/FCC/RoHS
Dimensions	51x30x32mm

MAXON

MAXON

MX6624 F5 WiFi 6 Module

MX6624 F5 WiFi 6 module adopts M.2 E-Key interface and supports PCI Express3.0. Support 5180~5320MHz, 5745~5825MHz dual frequency band, with AP and STA functions, 4x4 MIMO and 4 spatial streams, the maximum rate can reach 4800Mbps. The transmission efficiency is higher than previous generation and it has the function of dynamic frequency selection (DFS).

Type	WiFi6 wireless module
Chipset	QCN6024
Standard	IEEE802.11a/n/ac/ax
Modulation Technology	802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM); 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM); 802.11ax: OFDMA (BPSK , QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM)
MU-MIMO	4x4
Output (Per chain)	24dBm
Bandwidth	20/40/80/160MHz
Frequency Range	5180~5320MHz, 5745~5825MHz (CN)
Interface	M.2 E Key (PCI Express 3.0)
Operating Voltage	5V
Antenna Connector	4x U.FL
Power Consumption	≤15W
Temperature Range	Operating: -20~70°C/-4~158°F Storage: -40~90°C/-40~194°F
Operating Humidity	-5%~95% (non-condensing)
Certifications	RoHS/REACH
Dimensions	55.9x52.8x8.5mm

MX6924 F5 WiFi 6 Module

MX6924 F5 WiFi 6 module adopts M.2 E-Key interface and supports PCI Express3.0. Support 5180~5320MHz, 5745~5825MHz dual frequency band, with AP and STA functions, 4x4 MIMO and 4 spatial streams, the maximum rate can reach 4800Mbps. The transmission efficiency is higher than previous generation and it has the function of dynamic frequency selection (DFS).

Type	WiFi6 wireless module
Chipset	QCN9024
Wireless Standard	IEEE802.11a/n/ac/ax
Modulation Technology	802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM); 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM); 802.11ax: OFDMA (BPSK , QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM)
MU-MIMO	4x4
Output (Per Chain)	24dBm
Bandwidth	20/40/80/160MHz
Frequency Range	5180~5320MHz, 5745~5825MHz (CN)
Interface	M.2 E Key (PCI Express 3.0)
Operating Voltage	5V
Antenna Connector	4x U.FL
Power Consumption	≤15W
Temperature Range	Operating: -20~70°C/-4~158°F Storage: -40~90°C/-40~194°F
Operating Humidity	-5%~95% (non-condensing)
Certifications	RoHS/REACH
Dimensions	55.9x52.8x8.5mm

Wireless Motherboard

MX5012 Industrial Wireless Motherboard

MX5012 adopts 802.11ac technology, support 20/40/80MHz frequency band and 2.4GHz and 5.8GHz dual frequency band, the data transmission rate is up to 867Mbps (5.8G) & 300Mbps (2.4G). It supports dual firmware backup for industrial applications by the backup mechanism of firmware to prevent the device from being unable to work under extreme conditions and supports 11R fast roaming protocol.

|	
Chipset	IPQ4028
Memory	256MB DDR3, 32MB Flash
Interface And Button	2x 1Gbps Ethernet ports (1Gbps SFP port optional) 1x Mini PCIe 2.0 1x SIM Card slot 1x Uart port, 3 Pin connectors 1x Reset button 1x 10 Pin indicator interfaces
Indicator	1x 2.4G, 1x 5.8G, 1x power, 3x signal strength lights
Antenna Connector	2x MMCX (2.4G & 5.8G)
Frequency Range	2.4G: 2412~2472MHz, 5.8G: 5180~5320MHz, 5745~5825MHz
Output(combined)	2.4G: 25dBm, 5.8G: 24dBm
Receive Sensitivity	11ac: VHT20 MCS0: -88dBm/MCS8: -64dBm VHT40 MCS0: -84dBm/MCS9: -61dBm VHT80MCS0: -82dBm/MCS9: -57dBm
Throughput	2.4G 300Mbps, 5.8G 1200Mbps
Temperature Range	Operating: -20~70℃/-4~158°F Storage: -40~90℃/-40~194°F
Operating Humidity	-5%~95% (non-condensing)
PoE	48V
DC	1x 5.08 3Pins Terminal DC24V

MX6022 WiFi6 Industrial Wireless Motherboard

MX6022 supports IEEE 802.11a/b/g/n/ac/ax with a maximum rate of 1773.5Mbps. It's expandable to a tri-band wireless module (4800Mpbs) and supports 5G/4G cellular networks . Meet different application requirements. Flexible for different network access projects, support kvr seamless roaming technology, automatically detect and switch seamlessly.

Chipset	IPQ6010
Memory	2*512MB DDR3, Nor Flash 16MB, Nand Flash 128MB
Interface and Button	2x 2.5Gbps Ethernet ports (2.5Gbps SFP port optional) 1x Mini PCIe (USB3.0) 1x M.2 (PCIe3.0) 1x SIM Card slot 1x Uart port 3 Pin connectors 1x RS-485 5.08 terminal 3Pins 1x Reset button 1x 10Pin indicator interfaces
Indicator	1x 2.4G, 1x 5.8G1, 1x 5.8G2, 1x Power, 1x SFP, 1x 5G/4G
Antenna Connector	2x MMCX (2.4G & 5.8G)
Frequency Range	2.4G: 2412~2472MHz, 5.8G: 5180~5320MHz, 5745~5825MHz
Output(combined)	2.4G: 24dBm, 5.8G: 24dBm
Receive Sensitivity	11ax: HE20 MCS0 <-82dBm/MCS11 <-52dBm HE40 MCS0 <-79dBm / MCS11 <-49dBm HE80 MCS0 <-76dBm / MCS11 <-46dBm
Throughput	2.4G 573Mbps, 5.8G 1200Mbps
Temperature Range	Operating: -20~70℃/-4~158°F Storage: -40~90℃/-40~194°F
Operating Humidity	-5%~95% (non-condensing)
PoE	802.3af/at/bt 48-56V
DC	1x 5.08 3 Pins terminal DC24V

Industrial Wireless AP/Bridge

MX6012-IS Mining Intrinsical Safety WiFi 6 Dual-Band Wireless Motherboard
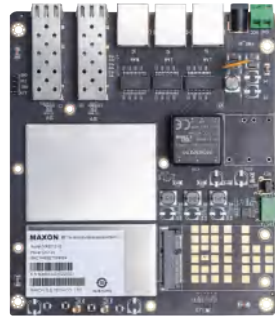
MX6012-IS supports IEEE802.11a/b/g/n/ac/ax with a maximum speed 1773.5Mbps and Mini PCIe (USB3.0) interface for an easier connection to 5G/4G cellular module. Supports modes of AP/Client/Mesh. It is flexibly suitable for different network access projects, supports wireless positioning function and KVR seamless roaming technology, automatic detection and seamless switching for users to roam without perception within the coverage of network signals. MX6012-IS provides 3x 1Gbps RJ45 port, 2x 1Gbps SFP, 2.4G/5.8G dual-band combined antenna interface, and supports access to various types of antennas. The hardware design meets intrinsical Safety requirements, and high-reliability power supplies are available. The high-level protection design allows it to provide a stable and reliable wireless network in harsh environments.

Chipset	IPQ6010
Memory	2*512MB DDR3, Nor Flash 16MB, Nand Flash 128MB
Interface And Button	3x 1Gbps Ethernet ports, 2x1Gbps SFP ports 1x Mini PCIe (USB3.0) 1x SIM Card slot 1x Uart port 3 Pin connectors 1x Rs-485 5.08 terminal 3Pins 1x Reset button
Indicator	1x Dual-color LED
Antenna Connector	2x MMCX (2.4G & 5.8G)
Frequency Range	2.4G: 2412~2472MHz, 5.8G: 5180~5320MHz, 5745~5825MHz
Output(Combined)	2.4G: 24dBm, 5.8G: 24dBm
Receive Sensitivity	11ax: HE20 MCS0 <-82dBm/MCS11 <-52dBm HE40 MCS0 <-79dBm / MCS11 <-49dBm HE80 MCS0 <-76dBm / MCS11 <-46dBm
Throughput	2.4G :573Mbps, 5.8G: 1200Mbps
Temperature Range	Operating: -20~70℃/-4~158°F Storage: -40~90℃/-40~194°F
Operating Humidity	-5%~95% (non-condensing)
DC Power Supply	1x 5.08 3Pins terminal 12V, 1x DC Jack 12V

MD5012A ME5 DIN-rail Wireless AP Seamless Roaming

· Support dual frequency
· Support DC24V power supply
· Support SNMP management
· Support PPPoE and routing mode
· Support 11R fast roaming agreement
· Rail mounted
· Support 802.3at protocol (PoE+)
· Support 802.11ac and 2x2 MIMO
· Indoor IP41 Protection Class
· Support AC remote configuration and upgrade management
· Web-based operation management makes equipment installation and maintenance more convenient
· Supports multiple application modes: Access Point, Client, WDS Access Point, WDS Client

Coverage	0~100m
Max. Throughput	300Mbps(2.4G) & 867Mbps(5.8G)

MX6012A WiFi6 AP, little size & low power consumption

· DC power supply: DC12/1.5A
· DDR3 memory 512GB
· 32MB Nand
· Total power consumption ≤ 12W
· Industrial Aluminum shell design, excellent heat dissipation performance
· WAN interface: 1*1000Mbps
· LAN interface: 1*100/1000Mbps
· Dims: 94.5*78*23.1mm
· Qualcomm IPQ6000 Quad-core ARM 64-bit 1.2GHz Processor

Coverage	0~100m
Max. Throughput	573.5Mbps(2.4G) & 1201Mbps(5.8G)

MX5012A-MI6 Industrial Dual-Band Wireless AP

· Support bridge and routing mode   · Support MAXON UWB module
· Support intelligent QoS   · Support 802.3at protocol (PoE)
· Support webpage management   · Support ceiling or pole mount
· Support Gigabit Ethernet port/SFP   · Support IEEE 802.11a/b/g/n/ac
· IP67 Protection Class is suitable for a variety of environments
· Indicators of Power, system and signal
· Support wireless controller AC management (purchased separately)

Coverage	0~200m
Max. Throughput	300Mbps(2.4G) & 867Mbps(5.8G)

MX6022A-DI12 WiFI 6 Outdoor Directional Wireless AP

· Support MAXON UWB module   · Support 802.3bt protocol (PoE+)
· Support bridge and routing mode · Support ceiling or pole mount
· Support web management   · IP67 Protection Class
· Support IEEE 802.11g/gn/an/ac/ax
· 2.5G Ethernet port or 2.5G SFP port optional
· Support wireless controller AC management (purchased separately)
· Built-in 12dBi directional antenna, the longest transmission distance
can reach 1.5km

Coverage	0~1500m
Max. Throughput	573.5Mbps(2.4G) & 1200Mbps(5.8G)

MX6023A-MI6 Wi-Fi 6 Outdoor High Performance Tri-Band Wireless AP

· Support bridge and routing mode   · Support MAXON UWB module
· Support intelligent QoS   · Up to 6573Mbps
· Support webpage management   · Support 802.3bt protocol (PoE+)
· IP67 Protection Class   · Support ceiling or pole mount
· Support IEEE 802.11g/gn/an/ac/ax
· 2.5G Ethernet port or 2.5G SFP port optional

Coverage	0~200m
Max. Throughput	573.5Mbps(Radio1 2.4G) & 1200Mbps (Radio2 5.8G1) & 4800Mbps(Radio3 5.8G2)

MX5011B-DI16 industrial wireless bridge with built-in directional antenna

· Support IEEE 802.11a/n/ac   · Support 802.3at protocol (PoE)
· Antenna gain 16dBi   · Support Gigabit Ethernet port/SFP
· Support intelligent QoS   · IP67 Protection Class
· Support pole mount, horizontal and vertical adjustable

Coverage	0~5000m
Max. Throughput	867Mbps

*MAXON wireless AP can support MAXON UWB module, please contact info@maxonc.com for more details.

MX5011B-DE29 Industrial Bridge 20km

· Support IEEE 802.11a/n/ac   · Support Gigabit Ethernet port/SFP
· Support intelligent QoS   · IP67 Protection Class
· Support 802.3at protocol (PoE)   · Antenna gain 29dBi
· Support pole mount, horizontal and vertical adjustable

Coverage	0~20000m
Max. Throughput	867Mbps

MX6021B-DI19 Wi-Fi 6 4×4MIMO Outdoor Wireless Bridge

· Support IEEE 802.11an/ac/ax   · IP67 Protection Class
· Support webpage management   · Support 802.3bt protocol (PoE+)
· Built-in 4x4 19dBi directional antenna
· 3km point-to-point throughput up to 1Gbps
· Intelligent wireless multimedia optimization technology
· Support pole mount, horizontal and vertical adjustable

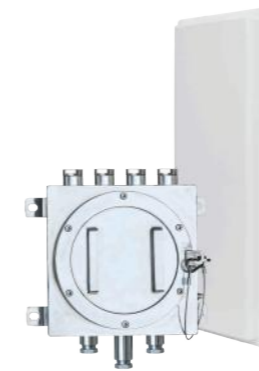| Coverage	0~5000m
Max. Throughput	4800Mbps

Explosion-proof Wireless Bridge

MX911-2P and MX811-2P are powerful explosion-proof wireless bridges. They have built-in industry-leading wireless technologies, including MIMO, TDMA, etc.for long-distance, high through-put rate and strong anti-interference transmission.

The product structure design fully considers the application in harsh environment, the design meet IP68 Protection Class and has the characteristics of explosion-proof, mildew-proof, anti-corrosion, and lightning resistance. So they can be deployed in almost all kinds of harsh environments.

MX911-2P

· Exd II CT6 Gb IP68   · Support Dynamic Frequency
· Explosion-Proof Wireless Bridge   Selection (DFS)
· Support 802.11a/b/g/n/ac   · Maximum 867Mbps

Explosion-proof Grade	Exd II CT6 Gb Ex tD A21V IP68 T80℃
Max. Throughput	5.8G: 867Mbps
Operating Voltage	48V PoE
Power Consumption	≤18W
Mechanical Features	Shell: 304 stainless steel Dimensions(LxWxH): 389*312*152mm Weight: 14.5kg
Ambient Conditions	Operating temperature: -40~80℃/-40~176°F Storage temperature: -40~85℃/-40~185°F Humidity: 5~95% (non-condensing)

MX811-2P

· Exd II BT6 Gb IP68   · Support Dynamic Frequency
· Explosion-Proof Wireless Bridge   Selection (DFS)
· Support 802.11a/b/g/n/ac   · Maximum 867Mbps

Explosion-proof Grade	Exd II BT6 Gb Ex tD A21 IP68 T80℃
Max. Throughput	5.8G: 867Mbps
Operating Voltage	48V PoE
Power Consumption	≤18W
Mechanical Features	Shell: 304 stainless steel Dimensions(LxWxH): 294*229*97mm Weight: 10.5kg
Ambient Conditions	Operating temperature: -40~80℃/-40~176°F Storage temperature: -40~85℃/-40~185°F Humidity: 5~95% (non-condensing)

Explosion-proof Router/Gateway

MX911-1F and MX811-1F are new generation 802.11ac 2x2 dual-band wireless access devices. They can provide users with stable outdoor wireless signal, meet the needs multi-users, high-speed wireless Internet transmission of videos and voices. Multimedia data transmission ensures that users enjoy stable, high-quality and convenient broadband services.

The product structure design fully considers the application in harsh environment, the design meets the Chinese requirements of GB3836-2010 and GB12476.1-2013 with IP68 Protection Class and has the characteristics of explosion-proof, mildew-proof, anti-corrosion, and lightning resistance. So they can be deployed in almost all kinds of harsh environments.
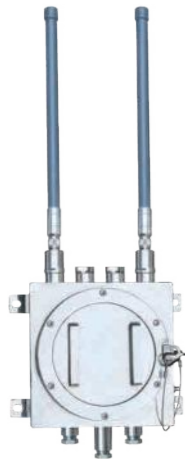
MX911-1F

· Exd II CT6 Gb IP68   · Support Dynamic Frequency Selection (DFS)
· Support 802.11a/b/g/n/ac   · Maximum bandwidth 1167Mbps
· Dual-band wireless access point Router/Gateway

Explosion-proof Grade	Exd II CT6 Gb Ex tD A21V IP68 T80℃
Max. Throughput	2.4G: 300Mbps, 5.8G: 867Mbps
Operating Voltage	48V PoE
Power Consumption	≤18W
Mechanical Features	Shell: 304 stainless steel Dimensions(LxWxH): 389*312*152mm Weight: 14.5kg
Ambient Conditions	Operating temperature: -40~80℃/-40~176°F Storage temperature: -40~85℃/-40~185°F Humidity: 5~95% (non-condensing)

MX811-1F

· Exd II BT6 Gb IP68   · Support Dynamic Frequency Selection (DFS)
· Support 802.11a/b/g/n/ac   · Maximum bandwidth 1167Mbps
· Dual-band wireless access point Router/Gateway

Explosion-proof Grade	Exd II BT6 Gb Ex tD A21 IP68 T80℃
Max. Throughput	2.4G: 300Mbps, 5.8G: 867Mbps
Operating Voltage	48V PoE
Power Consumption	≤18W
Mechanical Features	Shell: 304 stainless steel Dimensions(LxWxH): 294*229*97mm Weight: 10.5kg
Ambient Conditions	Operating temperature: -40~80℃/-40~176°F Storage temperature: -40~85℃/-40~185°F Humidity: 5~95% (non-condensing)

Wireless LAN Controller

The WLC system is a wireless access management system independently developed by MAXON. It can solve the management problem of traditional AP mode by centrally managing wireless products and simplified configuration. It can be perfectly integrated with the original network without changing its architecture, which greatly simplifies network deployment and management with saving the cost.

MX-AC44A0-06

MX-AC44A0-06 system can manage up to 256 devices with maximum 8192 wireless users. It can provide a powerful WLAN access for applications as hotspot, campus, large enterprises and metropolitan area wireless coverage.

It can be used for automatic upgrade of access point and client equipment, automatic configuration, real-time monitoring and orientation display, etc., which greatly reduces cost and difficulties of deployment or maintenance.

MX-AC94A0-06

The MX-AC94A0-06 wireless controller can manage 2048 devices with maximum 65535 users . It can provide hotspot coverage of powerful WLAN access network for campuses, large enterprises, cities, etc.

It can automatically upgrade, deliver configurations to access points and clients and perform real-time monitoring, which greatly reduces cost and difficulties of deployment or maintenance.

Industrial Ethernet Switch

- Rackmount Managed Industrial Ethernet Switch
- Rackmount Unmanaged Industrial Ethernet Switch
- DIN-Rail Managed Industrial Ethernet Switch
- DIN-Rail Unmanaged Industrial Ethernet Switch
- Ethernet to Fiber Media Converter
- Embedded Switch Board

REAL-TIME & RELIABLE
Industrial Integrated Network

Rackmount Managed Industrial Ethernet Switches

MC series rackmount managed industrial Ethernet switches. Fully management functions including QoS, VLAN, IGMP Snooping/GMRP, Port Trunking, SNMP V1/V2/V3, RSTP/STP, etc.

The unique RingGo redundant ring network protocol makes switching and recovery time is less than 20ms to improve the reliability of the network. Redundant power input, wide temperature design, strong anti-electromagnetic interference ability, can be widely used in industrial sites.

· Support RSTP/STP and private ring network protocol (recovery less than 20ms)
· Support QoS, VLAN, IGMP Snooping/GMRP and others
· 85-265VAC/77-300VDC wide voltage design, optional redundant power input

MAXON Model	MC226M	MC326M	MC228M	MC328M	MC426M	MC428M	MC328M	MC428M	MC528M	MC752M	MC728M
Total Port	24	26	28	28	26	28	28	28	28	52	28
Max. No. of 100M Ethernet Port	24	24	24	24	-	-	16	-	-	-	-
Max. No. of 100M SC optical Port	2	-	4	-	-	-	-	-	-	-	-
Max. No. of 100M SFP Slot	2	-	4	-	-	-	24	-	-	-	-
Max. No. of Gigabit Ethernet Port	-	-	-		24	24	-	16	24	48	24
Max. No. of Gigabit SC optical Port	-	2	-	4	2	4	-	-	-	-	-
Max. No. of Gigabit SFP Slot	-	2	-	4	2	4	4	28	24	24	24
Max. No. of 10 Gigabit SFP Slot	-	-	-	-	-	-	-	-	4	4	2
Single Power Supply	√	√	√	√	√	√	√	√	√	-	-
Redundant Power Supply	√	√	√	√	√	√	√	√	√	-	-
3 Layers	-	-	-	-	-	-	-	-	-	√	√

Rackmount Unmanaged Industrial Ethernet Switches

MC series Rackmount unmanaged industrial Ethernet switches are simple to configurate. A variety of power supply input voltages are optional, wide voltage input provides overload and reverse connection protection.

The industrial four-level anti-electromagnetic interference ability. Provides economical and reliable network access for industrial sites.

· Support 8-24x 100M/Gigabit RJ45 port
· Support 4x 100M SC/ST/FC optical port, flexible configurated
· Configurable with 4-24x 100M SFP slots
· Configurable 4-28x Gigabit SFP slots
· Optional 24V/220V power input
· Standard Rackmount

MAXON Model	MC226	MC326	MC228	MC328	MC426	MC428	MC328	MC428
Total Port	24	24	28	28	26	28	28	28
Max. No. of 100M Ethernet Port	24	24	24	24	-	-	16	-
Max. No. of 100M SC optical Port	2	-	4	-	-	-	-	-
Max. No. of 100M SFP Slot	2	-	4	-	-	-	24	-
Max. No. of Gigabit Ethernet Port	-	-	-	-	24	24	-	16
Max. No. of Gigabit SC optical Port	-	2	-	4	2	4	-	-
Max. No. of Gigabit SFP Slot	-	2	-	4	2	4	4	28
10 Gigabit SFP Slot	-	-	-	-	-	-	-	-
Single Power Supply	√	√	√	√	√	√	√	√
Redundant Power Supply	√	√	√	√	√	√	√	√

MAXON

DIN-rail Managed Industrial Ethernet Switches

MX series DIN-rail managed Ethernet switches, Fully management functions including QoS, VLAN, IGMP Snooping/GMRP, Port Trunking, SNMP V1/V2/V3, RSTP/STP, etc.

The unique RingGo redundant ring network protocol makes switching and recovery time is less than 20ms to improve the reliability of the network. Redundant power input, wide temperature design, strong anti-electromagnetic interference ability, can be widely used in industrial sites.

· Maximum support 4-16x RJ45 port
· Maximum support 2-4x 100M/Gigabit SC/ST/FC optical port
· Supports up to 2-12x Gigabit SFP slots
· Support multiple redundancy protection protocols such as RSTP/STP/MSTP/EAPS
· Support QoS, VLAN, IGMP Snooping/GMRP and others
· Support rail or wall mount

MAXON Model	MX210M	MX310M	MX212M	MX312M	MX218M	MX318M	MX220M	MX320M	MX410M	MX412M	MX418M	MX420M
Total Port	10	10	12	12	16	18	20	20	10	12	18	20
Max. No. of 100M Ethernet Port	8	8	8	8	16	16	16	16	-	-	-	-
Max. No. of 100M SC optical Port	2	-	4	-	2	-	4	-	-	-	-	-
Max. No. of 100M SFP Slot	2	-	4	-	2	-	4	8	-	-	-	-
Max. No. of Gigabit Ethernet Port	-	-	-	-	-	-	-	-	8	8	16	16
Max. No. of Gigabit SC optical Port	-	2	-	4	-	2	-	4	2	4	2	4
Max. No. of Gigabit SFP Slot	-	2	-	4	-	2	-	4	-	4	2	12
Redundant 24V DC	-	√	√	√	√	√	√	√	√	√	√	√
220/110V AC DC	√	√	√	√	√	√	√	√	√	√	√	√

DIN-rail Unmanaged Industrial Ethernet Switches

MX series DIN-rail Unmanaged Industrial Ethernet Switches. Optional 24V/220V voltage, wide voltage input and provide overload and reverse connection protection, optional wide temperature model, strong anti-electromagnetic interference ability, fully meet the harsh industrial application. Provides economical and reliable network access for industrial sites.

· Maximum support 4-16x RJ45 port
· Maximum support 2-4x 100M/Gigabit SC/ST/FC optical port
· Supports up to 2-12x Gigabit SFP slots
· Support multiple redundancy protection protocols such as RSTP/STP/MSTP/EAPS
· Support QoS, VLAN, IGMP Snooping/GMRP and others
· Support rail or wall mount

MAXON Model	MX205	MX208	MX210	MX310	MX212	MX312	MX218	MX318	MX220	MX320	MX410	MX412	MX418	MX420
Total Port	5	8	10	10	12	12	16	18	20	20	10	12	18	20
Max. No. of 100M Ethernet Port	5	8	8	8	8	8	16	16	16	16	-	-	-	-
Max. No. of 100M SC optical Port	1	4	2	-	4	-	2	-	4	-	-	-	-	-
Max. No. of 100M SFP Slot	-	-	2	-	4	-	2	-	4	8	-	-	-	-
Max. No. of Gigabit Ethernet Port	-	-	-	-	-	-	-	-	-	-	8	8	16	16
Max. No. of Gigabit SC optical Port	-	-	-	2	-	4	-	2	-	4	2	4	2	4
Max. No. of Gigabit SFP Slot	-	-	-	2	-	4	-	2	-	4	-	4	2	12
Redundant 24V DC	√	√	√	√	√	√	√	√	√	√	√	√	√	√
220/110V AC DC	√	√	√	√	√	√	√	√	√	√	√	√	√	√

Fiber Optic Transceiver/Opto-Electrical Converter

MX series Ethernet to Fiber Media Converters support the conversion from gigabit RJ45 port to gigabit optical ports. Redundant power supply design, wide voltage input and provide overload and reverse polarity protection. Optional wide temperature model, strong anti-electromagnetic interference ability, fully meet the harsh industrial application. Provides economical and reliable network access for industrial sites.

· 100M or Gigabit optional
· Optical port SC/ST/FC optional
· Transfer distance optional
· 24V/220V power input optional
· IP40 Protection Class
· Support rail or wall mounting

MX3000 series insert-card Ethernet to Fiber Media Converters have standard 2U chassis, supports 16 slots. The 100M or 1000M boards are all available. The dual power supplies design provides an economical and reliable solution for high-density Opto-Electrical conversion applications.

· Each chassis supports 16 slots, 1x RJ45 port, 1 optical port.
· 100M board or 1000M boards are available with dual power supplies

MAXON Model	MX203	MX302	MX3000
Total Port	3	2	16
Max. No. of 100M Ethernet Port	2	-	-
Max. No. of 100M SC optical Port	1	-	-
Max. No. of 100M SFP Slot	-	-	-
Max. No. of Gigabit Ethernet Port	-	1	-
Max. No. of Gigabit SC optical Port	-	-	-
Max. No. of Gigabit SFP Slot	-	1	-
Redundant 24V DC	√	√	-
220/110V AC DC	√	√	√

Embedded Switch Motherboard

3U CPCI 8-port all Gigabit Ports Switch Motherboard

· Compliant with PICMG2.16
· Supports 8 Gigabit ports for switching through the back pannal
· Support QoS, VLAN, IGMP Snooping/GMRP and others

6U CPCI 24-port All Gigabit Ports Switch Motherboard

· Compliant with PICMG2.16
· Compliant with PICMG 2.1, support 24 Gigabit ports for switching through the back pannal
· Support QoS, VLAN, IGMP Snooping/GMRP and others

Industrial Serial Server

REAL-TIME & STABLE

Guaranteed Industrial Grade Communications

- · Serial Device Servers
- · RS-232/485/422 Fiber Optic Converter

MAXON

MX Serial Device Servers

The MX Serial Device Servers is a high-performance networking device. It can easily control RS-232, RS-422/485 and other user equipment through Ethernet. It has 1 to 32 ports Rs-232 or RS-422/RS485 interfaces to meet various user needs.

· Quick start within 1 sec
· Maximum baud rate up to 460kbps
· Support 9-30V DC wide voltage input
· 32-bit ARM9 high-performance processor
· Built-in 15KV ESD protection for all serial port signals
· Support DNS real-time resolution (TCP Client only)
· Provide network firmware upgrade to ensure continuous improvement of reliability and performance
· Support SNMP, SYSLOG log service (status can be reported)

· 10/100M adaptive Ethernet interface MDI/MDI-X
· Enhanced network security settings and IPMAC filtering specifications
· Online, serial port, TCP/UDP, system status monitoring
· No lost under highest baud rate and long-term bidirectional file transmission
· WIN system COM serial port driver, offline setting of virtual serial port
· WEB/TELNET/Console configuration in multiple ways

Processor	32-bit ARM9 16M RAM 2M Flash
Ethernet Port	Ethernet 10/100Mbps, RJ45 port
Interface	1-32 RS-232/422/485
Signal Definition	RS-232:TxD/RxD/RTS/CTS/DTR/DSR/DCD/GND
	RS-422:Tx+/Tx-/Rx+/Rx-/GND
	RS-485:Data+/Data-/GND
Serial Port Protection	15KV ESD protection for all signals
Serial Communication Details	
Check	None, Even, Odd, Space, Mark
Data Bits	5, 6, 7, 8, 9
Stop Bits	1,1, 5, 2
Flow Control	RTS/CTS, Xon/Xof
Baud Rate	110-460800bps
Protocol	DHCP, Telnet, TCP, UDP, IP, ICMP, APR, SNMP, HTTP, SYSLOG
Real COM Driver	WINNT/2000XP/WIN7/WIN10

RS-232/485/422 Fiber Optic Converter

RS-232/485/422 Fiber Optic Converter

· Support point-to-point or node-based transmission
· Adaptive baud rate, long-distance communication at any rate
· Support fiber break warning
· Wide voltage input, strong EMC anti-interference ability

RS-485/422 Interface	
Connector	Terminal
Standard	RS-485/422/232
Baud Rate	DC-115.2kBit/s
Optical Interface	
Number Of Optical Ports	2
Wavelength	1310/1550nm
Fiber Type	62.5/125μm (MM), 9/125μm (SM)
Optical Transmission Distance	0~2Km, 0~20Km
Interface Type	ST/PC
General Details	
Operating Temperature	-40~85°C/-40~185°F
Humidity	0~95% non-condensing
Power Input	DC 12~36V
Dimensions	124.5x88.5x43mm

MAXON

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Industrial 4G/5G/Internet of Things

- 4G/5G Router
- Smart IoT Circuit Breaker

INTEGRATION & EFFICIENCY
Industrial IoT Transmission System

MAXON

4G/5G Router

MX-5R01

MX-5R01 is an industrial 5G Gigabit router . It supports 5G/4G/3G and compatible with EDGE, CDMA 1X and GPRS networks to supports multiple VPN protocols (Open-VPN, IPSEC, PPTP, L2TP, etc.) to ensure the security of data transmission. It can be seamlessly connected to various PLC industrial networking applications.

Wireless	Frequency Band: 2.4GHz Channel Selection: Channel 1-13; 2.4GHz 2.4G: 300Mbps (Max) 2.4G Power: 14dB (±2dB) EVM: 35dB (±2dB) HT20 HT40
Concurrent clients	Up to 128
Encryption	64/128-bit WEP WPA-PSK/WPA2-PSK TKIP, CCMP/AES
Coverage	100 m(outdoor open area)
CPU	MT7621DAT dual core frequency 880Mhz
Flash	128Mbits Flash
Memory	1024Mbits DDR3 (build-in chip)
Operating Voltage	DC12V
Operating Temperature	-30°C~70°C/-22~158°F
Storage Temperature	-40°C~90°C/-40~194°F
Humidity	95% (non-condensing)
Dimensions	97x78.2x25.5mm

IoT Circuit Breaker

The IoT circuit breaker is based on the basic functions of traditional ones such as miniature circuit breakers (MCB) or Residual Current Operated Circuit Breaker (RCBOs) including: overload, short circuit, leakage and other protection functions.

It realizes wireless monitoring and supports big data applications through various types of equipment and has become one of the intelligent terminalprotection appliances in the construction of the IoT and electrical network construction.

Leakage Protection Series: IoT-S8001L/IoT-S12501L

· Preventions: overload, short circuit, leakage, over and under voltage, current limiting, power metering
· Communication: GRPS/ RS-485/WiFi/ BT
· Control: manual and automatic integration, mobile phone remote control / on-site manual
· Rated Voltage Ue: AC230 (2P), AC400V (4P)
· Rated Current In: 32A, 40A, 50A, 63A, 80A, 100, 125A
· Breaking Capacity: 6kA   Tripping Current: C   GB Standard: GB/T 16917.1
· Leakage Protection: the protection value can be set by the user, the initial value is 50mA, 0.5s
· Overvoltage & Undervoltage Protection: the protection value can be set by the user, the initial value: overvoltage 275V (2P), 476V (4P), 15s; undervoltage 160V (2P), 287V (4P), 5s
· Current Limiting Protection: the protection value can be set by the user, the setting range (0.4-1) In
· Special Configuration:
1) leakage automatic suspended;
2) overvoltage & Undervoltage automatic reset;
3) other special customized functions.
· Mechanical/Electrical Lifetime: 10000/6000 times
· Dimensions:
IoT-S8001L 2P 54*70*106.5mm,
IoT-S12501L 2P 81x70x116.5mm,
IoT-S8001L 4P 90x70x106.5mm,
IoT-S12501L 4P 135x70x116.5mm

Smart IoT Gateway: IoT-4G-T1001

IoT-4G-T1001 is a 4G data terminal specially designed for IoT. ARM-CM3 core MCU, 4G module, 7-mode whole network communication, supports DDP, DNS, VIPS multiple communication modes.

The terminal uses AC220V or DC12~24V power supply; instant warning when the main power fails. The terminal is designed with power output interface, RS485 interface (optical isolation), Bluetooth interface (BLE4.2) and WIFI (2.4G) interface, which can be connected to various types of circuit breaker, meters or transmitters.
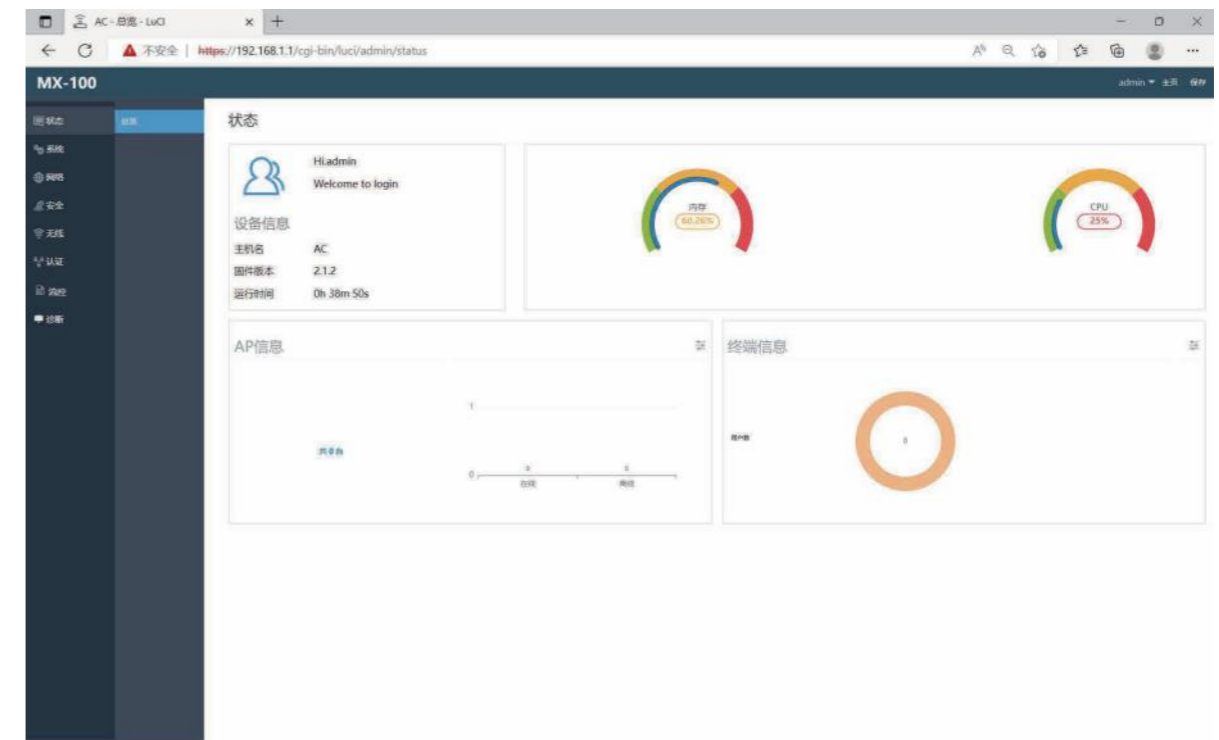
INTELLIGENT & CONVENIENT
Industrial Software

Software

- · Wireless LAN Controller Software
- · Wireless Location Software
- · Smart Electricity Platform

Wireless LAN Controller Software

· Supports warnings to be set ,such as reminders, pop-up, and email notifications on the device fault homepage.
· Support statistics of various device information, online and offline devices, operation logs, etc.
· Support online map, display the location of the device and support editing. The offline map can also do 2nd times indoor positioning.
· Support device running status display, online, offline, configuring, upgrading.
· Support batch upgrade, which can be manual or automatic upgraded.
· Support remote modification of device name, IP address, orientation information, wireless parameters
· Support authorization management.
· Support key information search to identify the target device efficiently.
· Support NTP server

Wireless Location Software

· Map import supports jpg., png., jpeg., set map name, layer ID, height and width of pixel and image, coordinate value, remarks, etc., Default map can selected and saved.
· Departments can be added, modified, deleted, etc., staff setting includes numbers, names, department and others.
· Support login users permissions and add new users.
· Click the added map to view the real-time location corresponding to the current layer and filter the historical track.
· Track playback can be set with 1, 2, 4, 8, 16x speed.
· Attendance plan can be configured.
· Inspection tasks can be set.
· Different types of electronic fences can be drawn.
· Warnings configuration can be performed. Its records can be viewed through condition filtering.

Smart Electricity Platform

　　Based on Ethernet, 4G, 5G, ZigBee, NB-IoT, LORA and other IoT technologies devices such as smart circuit breaker and smart cloud platforms to connect user data with building intelligence, energy, home, smart campus, hotel, community and electrical fire safety supervision and other systems integrated and connected to realize remote control, real-time warning, overall computing, energy-saving management and big data analysis.
　　The smart cloud platform adopts the BS architecture and can be managed through PC web-page and mobile APPs.

· Display the basic information of the project, including industry type, project address, contact information, etc. Supervisor can check total projects, all devices, online devices, real-time warning, historical warning etc. by a singal click
· Display real-time warning, maintenance records as well as power consumption of individual accounts including line name, leakage current, temperature, current, voltage, power, opening and closing status, with realizing remote control.
· Display real-time statistical graph of residual current, temperature, voltage and current of optional time.
· Display historical project graphic electricity consumption and the individual electricity load details.
· Perform one-command closing & opening, timing control and other operations for designated equipment or lines. Pre-settlements can be disabled or enabled at any time, details can be edited and deleted.
· Customizable warnings which system will perform pre-settled rules automatically and monitor abnormal equipment status.
· Click drop-down boxes to control more.