



HDV
F I B E R

产品手册

Products Catalog

深圳海荻威光电科技有限公司
Shenzhen HDV Photoelectron Technology Co.,LTD

HDV JUST DO ODM &OEM

HDV,the only company that focuses on PON ODM,
We Don't compete with your brand!

Product Profile | 产品简介

■ ■ ■ ■ ONU | 光网络单元 (光猫)



ONU旨在满足运营商网络建设的终端需求, 支持LAN、WiFi、POTS、CATV等多种接口, 可满足FTTO(办公室), FTTD(桌面), FTTH(家庭)等建设场景, 可以为用户提供高速宽带、无线办公、电视、语音、视频监控等多种业务。

HDV提供单口1GE EPON/XPON ONU, 多口多功能XPON ONU和双频多口多功能XPON ONU。采用中兴和瑞昱芯片组, 专为满足用户FTTH宽带接入以及运营商三网合一需求而设计, XPON系列可以在访问EPON OLT或GPON OLT时自动切换。采用高可靠性、易管理、配置灵活和良好的服务质量保证, 满足中国电信CTC3.0 EPON标准和ITU-TG.984.X GPON标准, 产品通过C E / R oHs/ISO9001认证。

ONU is designed to meet the terminal needs of telecom operators' network construction, supports multiple interfaces such as LAN, Wi-Fi, POTS, CATV etc., it could meet FTTO (office), FTTD (desktop), FTTH (home) and other construction scenarios, and provides users with high-speed Internet, wireless office, TV, voice, video surveillance and other services.

HDV provides single-port 1GE EPON/XPON ONU, multi-port multi-function XPON ONU and dual-band WIFI multi-port multi-function XPON ONU. Using ZTE and Realtek chipsets, designed to meet the needs of users for FTTH broadband access and the triple play. XPON ONU series can switch PON mode automatically when accessing EPON OLT or GPON OLT. It adopts high reliability, easy management, flexible configuration and good service quality assurance, and meets EPON Standard of China Telecom CTC3.0 and GPON Standard of ITU-TG.984.X. Products have passed CE/ROHs/ISO9001 certification.

■ ■ ■ ■ 产品特性 | Product Features

- 支持EPON/GPON模式, 自动切换模式
- 支持路由模式的PPPoE/DHCP/静态IP支持“路由模式”和“桥接模式”
- 支持IPv4和IPv6双模式
- 支持局域网IP和DHCP服务器配置
- 支持端口映射和环路检测
- 支持防火墙功能和ACL功能
- 支持IGMP Snooping/代理组播功能
- 支持TR069远程配置和维护
- 专业的系统故障预防设计, 维护系统稳定
- 支持SFU和HGU功能(单端口ONU)

- Support EPON/GPON mode and switch mode automatically
- Support Route mode for PPPoE/DHCP/Static IP and Bridge mode
- Support IPv4 and IPv6 Dual mode
- Support LAN IP and DHCP Server configuration
- Support Port Mapping and Loop-Detect
- Support Firewall function and ACL function
- Support IGMP Snooping/Proxy multicast feature
- Support TR069 remote configuration and maintenance
- Specialized design for system breakdown prevention to maintain stable system
- Support SFU and HGU Function (for Single Port ONU)



■■■■ 产品特性 | Product Features

支持4个10/100/1000Mbps自适应以太网接口
 支持EPON/GPON模式，自动切换模式
 支持PPPoE/DHCP/Static Ip支持路由模式和桥接模式
 支持IPv4和IPv6双模式
 支持2.4G&5.8G WIFI和多SSID
 支持SIP协议的Voip业务
 支持有线电视接口的视频业务和远程控制的主流OLT
 支持局域网IP和DHCP服务器配置
 支持端口映射和环路检测
 支持防火墙功能和ACL功能
 支持IGMP Snooping/代理组播功能
 支持TR069远程配置和维护
 专业的系统故障预防设计，维护系统稳定

Support 4 x 10/100/1000Mbps auto adaptive Ethernet interfaces
 Support EPON/GPON mode and switch mode automatically
 Support Route mode for PPPoE/DHCP/Static IP and Bridge mode
 Support IPv4 and IPv6 Dual mode
 Support 2.4G&5.8G WIFI and Multiple SSID
 Support SIP Protocol for Voip Service
 Support CATV interface for Video Service and remote control by Major OLT
 Support LAN IP and DHCP Server configuration
 Support Port Mapping and Loop-Detect
 Support Firewall function and ACL function
 Support IGMP Snooping/Proxy multicast feature
 Support TR069 remote configuration and maintenance
 Specialized design for system breakdown prevention to maintain stable system

★ :Hot Products(热卖产品)

型号(Model)	工作模式 Working mode	芯片方案 Chipset Solution	网口 LAN	无线网络标准 WIFI STANDARD	天线 ANTENNAS	有线电视 CATV	语音 POTS	USB
★ HUR4001XR	XPON	RTL9607C	4GE	802.11 b/g/n 802.11ac	4	x	1	1
★ HUR4002XR	XPON	RTL9607C	4GE	802.11 b/g/n 802.11ac	4	x	x	x
★ HUR4101XR	XPON	RTL9607C	4GE	802.11 b/g/n 802.11ac	4	1	1	1
HUR4102XR	XPON	RTL9607C	4GE	802.11 b/g/n 802.11ac	4	1	1	x
★ HUR4103XR	XPON	RTL9607C	4GE	802.11 b/g/n 802.11ac	4	1	x	1
HUR4104XR	XPON	RTL9607C	4GE	802.11 b/g/n 802.11ac	4	1	x	x

Multi Port ONU | 多口 ONU



产品特性 | Product Features

- 支持EPON/GPON模式，自动切换模式
- 支持PPPoE/DHCP/Static Ip支持路由模式和桥接模式
- 支持IPv4和IPv6双模式
- 支持2.4G WIFI和多SSID
- 支持SIP协议的Voip业务
- 支持有线电视接口的视频业务和远程控制的主流OLT
- 支持局域网IP和DHCP服务器配置
- 支持端口映射和环路检测
- 支持防火墙功能和ACL功能
- 支持IGMP Snooping/代理组播功能
- 支持TR069远程配置和维护
- 专业的系统故障预防设计，维护系统稳定

- Support EPON/GPON mode and switch mode automatically
- Support Route mode for PPPoE/DHCP/Static IP and Bridge mode
- Support IPv4 and IPv6 Dual mode
- Support 2.4G&5.8G WIFI and Multiple SSID
- Support SIP Protocol for Voip Service
- Support CATV interface for Video Service and remote control by Major OLT
- Support LAN IP and DHCP Server configuration
- Support Port Mapping and Loop-Detect
- Support Firewall function and ACL function
- Support IGMP Snooping/Proxy multicast feature
- Support TR069 remote configuration and maintenance
- Specialized design for system breakdown prevention to maintain stable system

★:Hot Products(热卖产品)

型号(Model)	工作模式 Working mode	芯片方案 Chipset Solution	网口 LAN	无线网络标准 WIFI STANDARD	天线 ANTENNAS	有线电视 CATV	语音 POTS
★ HUR2101XR	XPON	RTL9602C	1GE+1FE	802.11 b/g/n	2	1	1
★ HUR2102XR	XPON	RTL9602C	1GE+1FE	802.11 b/g/n	2	1	x
HUR2103X	XPON	RTL9602C	1GE+1FE	x	x	1	1
HUR2104X	XPON	RTL9602C	1GE+1FE	x	x	1	x
★ HUR2201XR	XPON	RTL9602C	1GE+1FE	802.11 b/g/n	2	x	1
★ HUR2202XR	XPON	RTL9602C	1GE+1FE	802.11 b/g/n	2	x	x
HUR2203X	XPON	RTL9602C	1GE+1FE	x	x	x	1
HUR2204X	XPON	RTL9602C	1GE+1FE	x	x	x	x
HUR3201XR	XPON	RTL9603C-VD	1GE+3FE	802.11 b/g/n	2	1	1
HUR3205XR	XPON	RTL9603C-VD	1GE+1FE	802.11 b/g/n	2	1	1
HUR3202XR	XPON	RTL9603C-VD	1GE+3FE	802.11 b/g/n	2	x	1
HUR3206XR	XPON	RTL9603C-VD	1GE+1FE	802.11 b/g/n	2	x	1
★ HUR3203XR	XPON	RTL9603C-VD	1GE+3FE	802.11 b/g/n	2	1	x
HUR3207XR	XPON	RTL9603C-VD	1GE+1FE	802.11 b/g/n	2	1	x
★ HUR3204XR	XPON	RTL9603C-VD	1GE+3FE	802.11 b/g/n	2	x	x
HUR3208XR	XPON	RTL9603C-VD	1GE+1FE	802.11 b/g/n	2	x	x
HUR3209X	XPON	RTL9603C-VD	1GE+1FE	x	x	1	x
HUR3210X	XPON	RTL9603C-VD	1GE+3FE	x	x	1	x
HUR3101XR	XPON	RTL9603C-VA	1GE+3FE	802.11 b/g/n	2	1	1
HUR3105XR	XPON	RTL9603C-VA	1GE+1FE	802.11 b/g/n	2	1	1
HUR3102XR	XPON	RTL9603C-VA	1GE+3FE	802.11 b/g/n	2	x	1
HUR3106XR	XPON	RTL9603C-VA	1GE+1FE	802.11 b/g/n	2	x	1
HUR3103XR	XPON	RTL9603C-VA	1GE+3FE	802.11 b/g/n	2	1	x
HUR3107XR	XPON	RTL9603C-VA	1GE+1FE	802.11 b/g/n	2	1	x
HUR3104XR	XPON	RTL9603C-VA	1GE+3FE	802.11 b/g/n	2	x	x
HUR3108XR	XPON	RTL9603C-VA	1GE+1FE	802.11 b/g/n	2	x	x
HUR3109X	XPON	RTL9603C-VA	1GE+1FE	x	x	1	x
HUR3110X	XPON	RTL9603C-VA	1GE+3FE	x	x	1	x

Single Port ONU | 单口 ONU



产品特性 | Product Features

- 支持SFU/HGU的类型和通过网页进行更改
- 支持EPON/GPON模式，自动切换模式
- 支持ONU自动发现/链路检测/远程升级软件
- 支持路由PPPoE/IPoE/静态IP和网桥模式
- 支持IPv4和IPv6双模式
- 支持防火墙功能和IGMP组播特性
- 支持局域网IP和DHCP服务器配置
- 支持端口转发和环路检测
- 支持TR069远程配置和维护
- 专业的系统故障预防设计，维护系统稳定

- Support SFU/HGU type and change via webpage
- Support EPON/GPON mode and switch mode automatically
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support Route PPPoE/IPoE/Static IP and Bridge mode
- Support IPv4/IPv6 Dual mode
- Support Firewall function and IGMP multicast feature
- Support LAN IP and DHCP Server configuration
- Support Port Forwarding and Loop-Detect
- Support TR069 Remote Configuration and maintenance
- Specialized design for system breakdown prevention to maintain stable system

★:Hot Products(热卖产品)

型号(Model)	工作模式 Working mode	芯片方案 Chipset Solution	网口 LAN	电源开关 Power-Switch	APD
HTR5033E	EPON	RTL9601D	1GE	1	x
HTR5033X	XPON	RTL9601D	1GE	1	x
★ HTR5034E	EPON	RTL9601D	1GE	x	x
★ HTR5034X	XPON	RTL9601D	1GE	x	x
★ HTR5035E	EPON	RTL9601D	1GE	x	x
★ HTR5035X	XPON	RTL9601D	1GE	x	x
★ HTR5036X	XPON	RTL9601D	1GE	1	1



EPON OLT是一款高集成度和中等容量的盒式OLT，专为运营商的接入和企业园区网络而设计。遵循IEEE802.3 ah技术标准，满足YD / T 1945-2006接入网技术要求的EPON OLT设备要求 - 基于以太网无源光网络(EPON)和中国电信EPON技术要求3.0。EPON OLT系列具有优良的开放性，大容量，高可靠性，完整的软件功能，高效的带宽利用率和以太网业务支持能力，广泛应用于运营商前端网络覆盖，私网建设，企业园区接入等接入网建设。

GPON OLT 是一款小容量增强型卡带OLT，符合ITU-T G.984 / G.988的要求和中国电信/联通GPON的相关标准，具有超强的GPON接入能力，电信级可靠性和完整的安全功能。由于其优秀的管理，维护和监控能力，丰富的服务特性和灵活的网络模式，可以满足远程光纤接入需求。GPON OLT可与网络管理系统配合使用，为用户提供完美的体验。

EPON OLT is a highly integrated and medium capacity boxed OLT designed for operator access and enterprise campus networks. EPON OLT equipment requirements that meet the technical requirements of the YD / T 1945-2006 access network in accordance with the IEEE 802.3 ah technical standard - Based on Ethernet Passive Optical Network (EPON) and China Telecom EPON Technical Requirements 3.0. EPON OLT series has excellent openness, large capacity, high reliability, complete software functions, efficient bandwidth utilization and Ethernet service support capabilities. It is widely used in operator front-end network coverage, private network construction, enterprise campus access and so on access network construction.

GPON OLT is a small-capacity enhanced cassette OLT that meets ITU-T G.984 / G.988 requirements and China Telecom/Unicom GPON related standards. It has superior GPON access capability, carrier-class reliability and Complete security features. Due to its excellent management, maintenance and monitoring capabilities, rich service features and flexible network mode, it can meet the requirements of remote fiber access. GPON OLT can be used with network management systems to provide users with a perfect experience.

Item	EPON 4/8 PON Port	EPON 8/16 PON Port	GPON 8 PON Port	GPON 16 PON Port
业务端口 Service Port	4/8 * PON port, 8 * GE, 4*10G SFP optical	8/16 * PON port, 8 * GE, 4*10G SFP optical	16*PON port, 4*GE COMBO port, 2*10GE SFP+ port	16*PON port, 4*GE COMBO port, 2*10GE SFP+ port
冗余设计 Redundancy Design	Dual Voltage Regulators	Dual Voltage Regulators	Dual power supply Support AC input, double DC input and AC+DC input	Dual power supply Support AC input, double DC input and AC+DC input
电源规格 Power Supply	AC: input100~240V * 2 47/63Hz	AC: input100~240V * 2 47/63Hz	AC: input 100~240V 50/60Hz DC: input 36V~75V	AC: input 90~264V 47/63Hz DC: input -36V~-72V
电源功耗 Power Consumption	≤45W	≤45W	≤90W	≤110W
尺寸规格 Dimensions (Width x Depth x Height)	440mm×44mm×260mm	440mm×44mm×260mm	440mm×44mm×300mm	440mm×44mm×300mm
重量 Weight (Full-Loaded)	≤4.5kg	≤4.5kg	≤6.5kg	≤7.5kg
环境要求 Environmental Requirements	Working temperature: -10°C~55°C Storage temperature: -40°C~70°C Relative humidity: 10%~90%, non-condensing	Working temperature: -10°C~55°C Storage temperature: -40°C~70°C Relative humidity: 10%~90%, non-condensing	Working temperature: -10°C~55°C Storage temperature: -40°C~70°C Relative humidity: 10%~90%, non-condensing	Working temperature: -10°C~55°C Storage temperature: -40°C~70°C Relative humidity: 10%~90%, non-condensing

■ SFP Modules | SFP模块



SFP光模块是小型可热插拔光收发模块，在通信行业使用较广泛，SFP光模块有很多种类型，如：BIDI-SFP、电口 SFP、PON SFP、CWDM SFP、DWDM SFP、SFP+光模块等。另外，对于同类型的 XFP、X2、XENPAK光模块而言，SFP光模块不仅能其直连，还具有成本较其更低的特点。HDV目前生产的SFP光模块最高速率可达10G，LC、SC接口为最多。SFP光模块主要应用于光纤收发器、路由器、交换机、PDH、SDH设备、CWDM/DWDM设备、PON设备 (OLT、ONU)、光纤通道(Fiber Channel)。

SFP module is a small hot-pluggable optical transceiver integrated module, which is widely used in the communication industry. There are many types of SFP optical modules, Such as: BIDI-SFP, copper SFP, PON SFP, CWDM SFP, DWDM SFP, SFP+ module. In addition, for the same type of XFP, X2, XENPAK modules, SFP module can not only be directly connected with it, but also have the feature of lower cost than it. HDV currently produced SFP module have a maximum rate to 10G, the normal interface is LC、SC. SFP module is mainly used in optical transceivers, routers and switches,PDH, SDH,CWDM/DWDM , pon equipments and Fiber Channel.

	SFP SFP	SFP+ SFP+	电口 Copper SFP	PON SFP PON SFP
传输速率 Data rate	155M/1.25G/3G	10G	1000M&10/100/1000M 10G	1.25G/2.5G
传输距离 Transmission distance	550m~120km	300m~120km	100m/300m	20km
光纤类型 Fiber type	single-mode/ multi-mode	single-mode/ multi-mode	None	single-mode
支持接口 Interface	LC/SC	LC	Rj45	SC
工作电压 Voltage	3.3V	3.3V	3.3V	3.3V
工作温度 Temperature	商用: 0°C ~ 70°C 工业级: -40°C ~ 85°C Commercial: 0°C ~ 70°C Industrial grade: -40°C ~ 85°C			
其它特性 Other features	具备DDM数字诊断功能/可编程无光报警功能/符合Class 1 Laser, 符合IEC60825-1的要求/符合ROHS标准 With DDM digital diagnostics/Programmable matt alarm function/In accordance with Class 1 Laser/In accordance with the requirements of IEC60825-1/In accordance with ROHS standard			



光纤收发器，是一种将短距离的双绞线电信号和长距离的光信号进行互换的以太网传输媒体转换单元，在很多地方也被称之为光电转换器(Fiber Converter)。产品一般应用在以太网电缆无法覆盖、必须使用光纤来延长传输距离的实际网络环境中，且通常定位于宽带城域网的接入层应用;如:监控安全工程的高清视频图像传输;

海荻威生产的收发器涵盖了单10M、100M、1000M、10G的光纤收发器、10/100M自适应光纤收发器、10/100/1000自适应收发器，有单纤和双纤1光1电和多光多电传输接口、传输模式有单模和多模，单模光纤收发器传输距离20公里至120公里，多模光纤收发器的传输距离2公里到5公里，产品符合10Base-T、100Base-TX、100Base-FX、IEEE802.3和IEEE802.3u等以太网标准。

The optical Media Converter is an Ethernet transmission medium conversion unit that exchanges short-distance twisted pair electrical signals and long-distance optical signals. In many places, it is also called Fiber Converter. The product is generally used in an actual network environment where the Ethernet cable cannot be covered and must use optical fiber to extend the transmission distance, and is usually located in the access layer application of the broadband metropolitan area network. For example, high-definition video image transmission for monitoring security engineering. It also played a huge role in helping to connect the last mile of the fiber to the metro and the other network.

HDV produces Media Converter that include single 10M, 100M, 1000M, 10G fiber Media Converter, 10/100M adaptive fiber Media Converter, 10/100/1000 adaptive Media Converter, single and dual fiber 1 light 1 Electrical and multi-optical multi-electric transmission interface, single-mode and multi-mode transmission mode, single-mode optical transceiver transmission distance of 20 km to 120 km, multimode optical transceiver: transmission distance of 2 km to 5 km, product conforms to 10Base-T Ethernet standards such as 100Base-TX, 100Base-FX, IEEE802.3, and IEEE802.3u.

Company Introduction | 公司简介



深圳海荻威光电科技有限公司成立于2012年，是一家致力于遍布全球的电信接入网设备的ODM厂商，取得了国家高新技术企业认证，并获得了深圳市科技创新委员会的创新无偿资助；集产品的研发、制造、内外贸一体，是行业内知名企业，并获得阿里巴巴国际站行业头部企业称号。

公司现有员工近300人，总部位于深圳福永，并在宝安中心与武汉设有研发中心，在印度、巴西等地方有本地员工及服务团队；公司的主要产品为电信接入网络的OLT、ONU、SFP光模块及交换机等相关产品，能够为客户提供100%ODM服务，并且为客户本地化生产提供技术与设备的支持；目前公司的产品已销往到全球90多个国家与地区，为当地人民的入户网络提供优质的解决方案.....

HDV Phoelectron Technology Ltd. founded in 2012, is an ODM manufacturer dedicated to telecommunication access network equipment all over the world. It has obtained the national high and new Technology enterprise certification, and obtained the innovation great support from Shenzhen Science and Technology Innovation Committee. Integrating product research and development, manufacturing, domestic and foreign trade, it is a well-known enterprise in the industry, and won the title of Alibaba's International platform head enterprise.

HDV has nearly 300 employees, headquartered in Fuyong, Shenzhen, with R&D centers in Shenzhen Baoan and Wuhan, and local staff and service teams in India and Brazil. The main products of the company are OLT, ONU, SFP Module and Switch related products of telecom access network, which can provide customers with 100% ODM service and provide technical and equipment support for localized production of customers. At present, the company's products have been sold to more than 90 countries and regions around the world, providing high quality solutions for local people's home network.....

Development history | 发展历程

2017~2021

2017~2021年，公司实现了高速发展，占地面积达6000平米，员工增至200多人，业绩翻倍增长。研发硬件和软件工程师增至30多人，获得多项产品专利与产品证书，同时研发出OLT系列产品，打造了完善的光通信设备的产品链。

In 2017~2021, The company has achieved rapid development and doubled its performance. The number of hardware and software engineers has increased to more than 30, and many product patents and certificates have been obtained. At the same time, OLT series products have been developed, and a complete product chain of optical communication equipment has been built.

2016

2016年2月，规模再扩大，搬迁至福永旭达工业区，占地面积达4000平米，员工增至100多人，成立了研发团队并研发出了SFP/收发器/ONU产品线并建立了生产线。

In 2016, The scale was further expanded and moved to Fuyong Xuda Industrial Zone, covering an area of 4000 square meters, with more than 100 employees. A R&D team was established and a SFP/Media converter/ONU product line was developed and a production line was established.

2015

2015年5月，扩大生产规模，实现规模化生产，成立了研发部，同时获得“无插芯单纤模块专利证书”。

In 2015, Expanding production scale and realizing large-scale production, R&D department was set up, and the patent certificate of non-core single-fiber module was obtained at the same time.

2014

2014年5月，公司搬迁至福永华丽工业园，扩建了光器件生产车间。

In 2014, the company moved to Fuyong Huali Industrial Park and expanded the optical device workshop.

2013

2013年6月，公司搬迁至沙井丽城工业园，建立了第一条光模块生产线。

In 2013, we moved to Shajing Licheng Industrial Park in and established the first optical module production line.

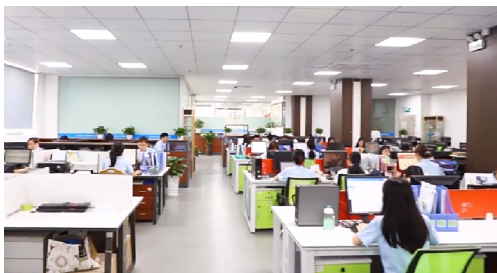
2012

2012年7月16日成立于深圳大学城硅谷创业孵化园，主营1*9光模块。

Founded in Silicon Valley Business Incubation Park of Shenzhen University City in 2012, it mainly operates 1*9 optical modules.

■■■■ Company Presentation | 公司展示

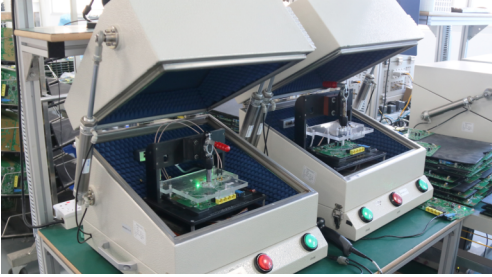
■■■■ Office environment | 办公环境



■■■■ Production environment | 生产环境



■ ■ ■ Device display | 设备展示



我们有一整套完整的产品生产设备，高速SMT贴片机、高低温测试系统、自动耦合焊接机、wifi测试仪、眼图仪、误码仪等精确设备。能保证快速，高质量地完成客户的订单需求。

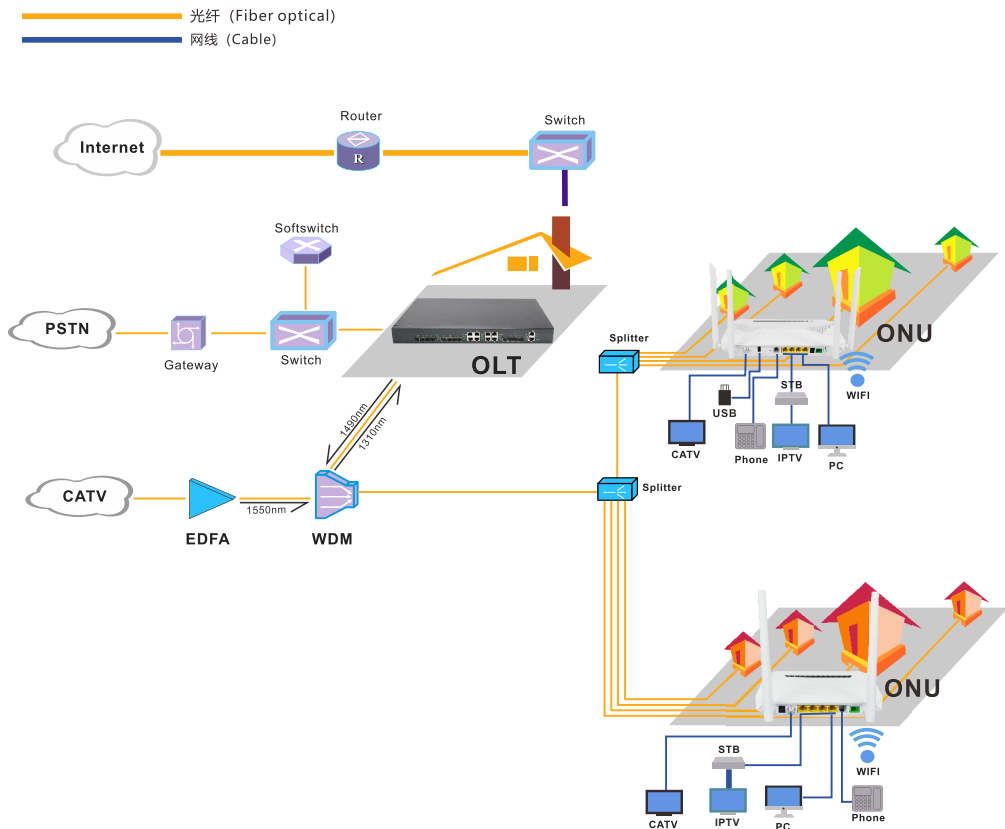
We have a complete set of production equipment, high-speed SMT placement machine, high and low temperature test system, automatic coupling welding machine, wifi tester, eye diagram, BER tester and other precision equipment. To ensure fast and high quality completion of customer orders.

Certificate Presentation | 证书展示



FTTH Solution | 光纤到户解决方案

- ODM光纤接入网一站式解决方案提供商；
 - 我们不做自己品牌，我们只做ODM和OEM,我们从不跟客户抢市场；
 - 我们提供FTTH系列产品一站式购买，节约您的购买成本；
 - 我们有强大的技术支持和售后服务团队，24小时提供技术支持，解决您的所有问题；
 - 我们有完整的质检流程，每一个产品都是精益求精。
- One stop solution provider for optical fiber access network in ODM
 - We do not make our own brand, we only do ODM and OEM, we never compete with customers for the market.
 - We provide one-stop purchase of FTTH series products to save your purchase cost.
 - We have a strong technical support and after-sales service team, 24 hours to provide technical support to solve all your problems.
 - We have a complete quality inspection process, and each product is constantly improving.





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