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Optical Fiber System Solution

**FTTx PON System
Security and Monitoring System**

Catalogue 2019

KOC provides FTTx solution, which is new generation passive fiber network product solution based on PON system network and meets relative national and international standards of GPON and EPON, and also meets the transmission requirement of high speed internet, voice and video services. This solution not only can provide the last kilometer access with fiber for all kinds of network operators, but also can be applied on customer professional network for various industries like broadcast and television access network, video monitoring network, enterprise local area network, and servers in customer private network of different industries such as radio and television, transportation, energy sources, electric power, finance and government.

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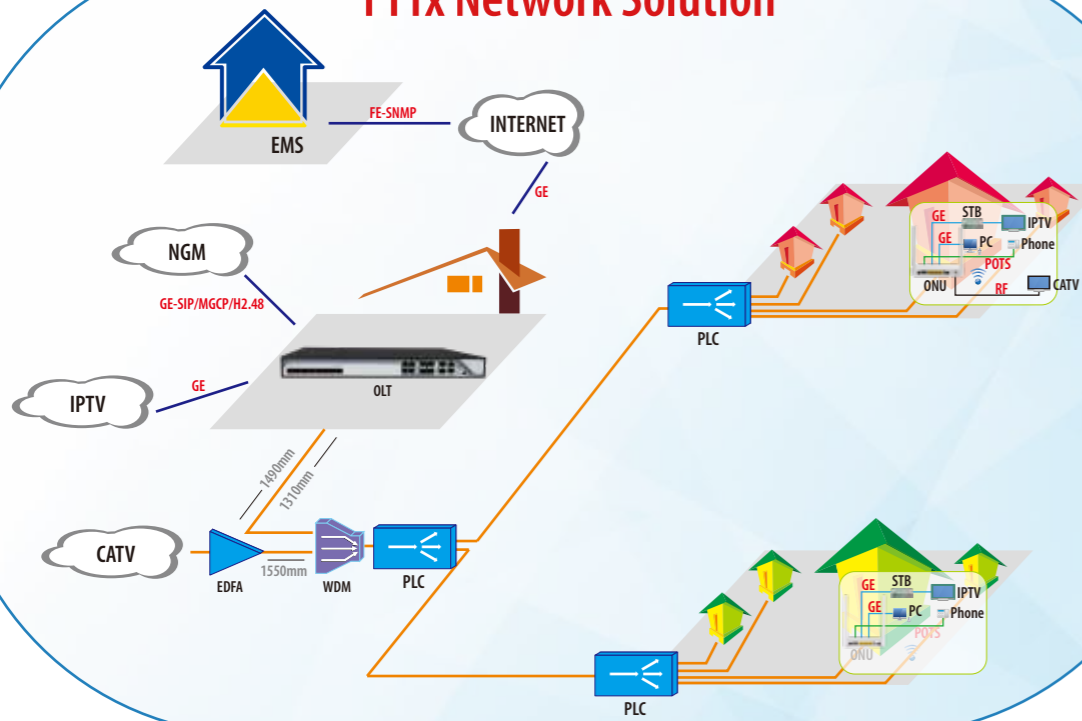
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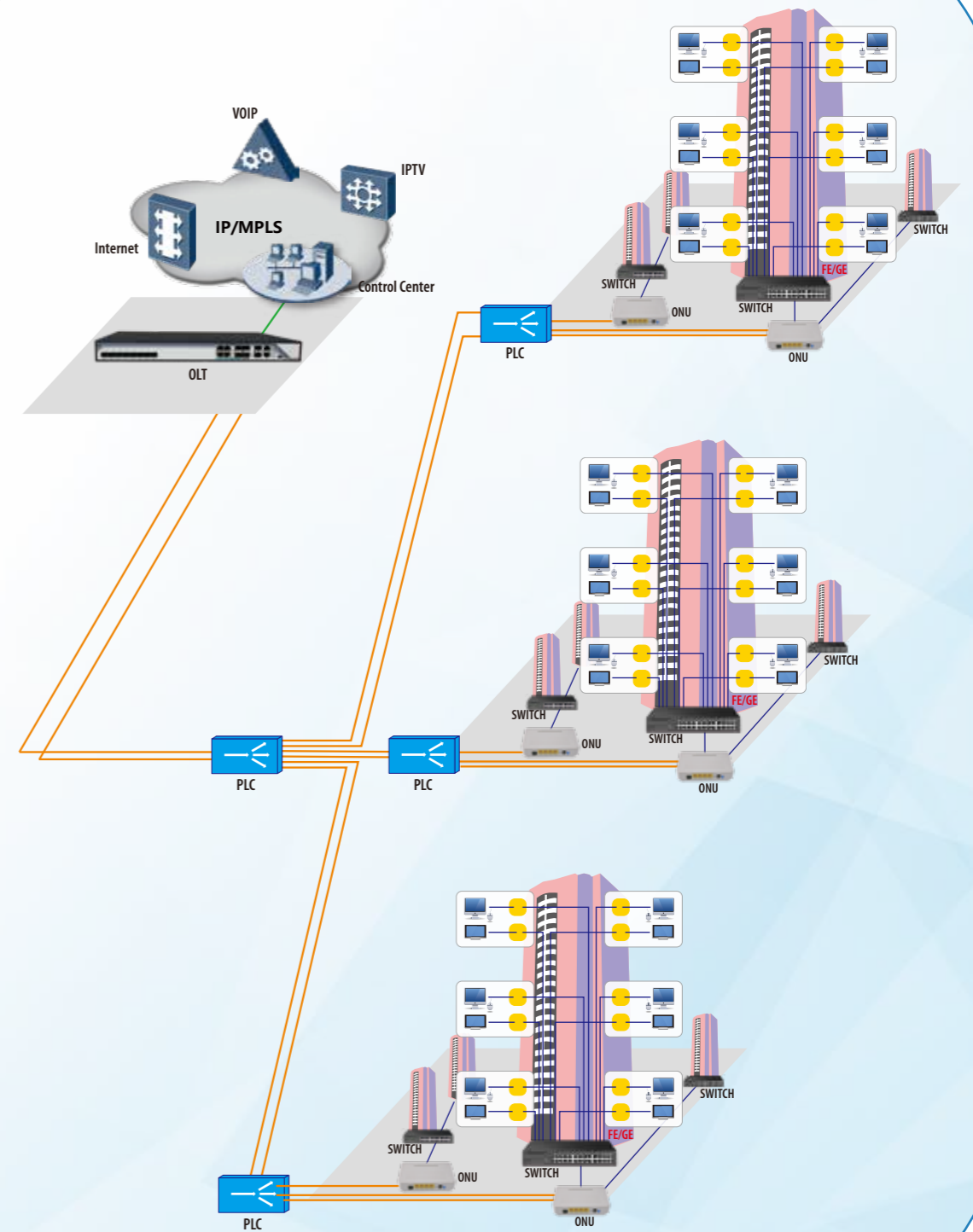
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FTTx PON System

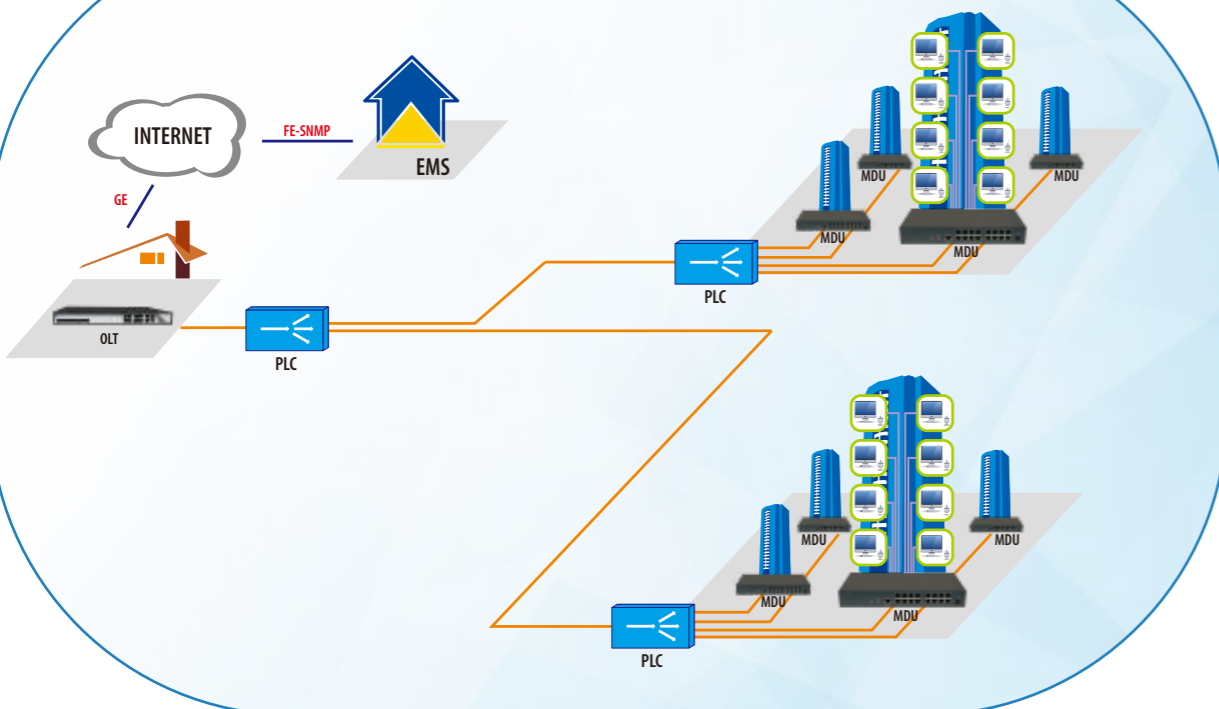
FTTx Network Solution



PON+LAN Network Solution



FTTB Network Solution



KOC-ET8004

KOC-ET8004 is 1U high 19 inch rack mount product. The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to deploy in an compact room environment.

The OLT can use for "Triple-Play", CPN, IP Camera, Enterprise LAN and IOT applications. It is a high performance products.

KOC-ET8004 provides 1 USB port, 4GE and 4 SFP slots interface for uplink, and 4 EPON ports for downstream. It can support 256 ONU under 1:64 splitter ratio.



Item	Parameter	Specification
KOC-ET8004		
Uplink Port	QTY	8
	Copper	10/100/1000M auto-negotiable, RJ45:4pcs
	SFP	4 SFP slots
PON Port	QTY	4
	Physical Interface	SFP Slots
	Connector Type	1000BASE-PX20+
	Max splitting ratio	1:64
USB Port		1 Type-C interface
Management Ports		Similar to the CONSOLE port function, used for serial port login
		1*10/100/1000M auto-negotiable outband port
		1CONSOLE port
PON Port Specification	Transmission Distance	20KM
	PON port speed	Symmetrical 1.25Gbps
	Wavelength	1490nm TX, 1310nm RX
	Connector	SC/PC
	Fiber Type	9/125μm SMF
	TX Power	+2.5~+7dBm
	Rx Sensitivity	-27dBm
Saturation Optical Power	-6dBm	
Management Mode		SNMP, Telnet, CLI management mode.

KOC-ET8008

KOC-ET8008 is 1U high 19 inch rack mount product. The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to deploy in an compact room environment.

The OLT can use for "Triple-Play", CPN, IP Camera, Enterprise LAN and IOT applications. It is a high performance products.

KOC-ET8008 provides 8GE(copper)and 8SFP slots Combo interface for uplink, and 8 EPON ports for downstream. It can support 512 ONU under 1:64 splitter ratio.



Item	Parameter	Specification
KOC-ET8008		
Chassis	Rack	1U 19 inch standard box
	Slots	NA
Uplink Port	QTY	16
	Copper	10/100/1000M auto-negotiable, RJ45:8pcs
	SFP	8SFP slots(Combo)
PON Port	QTY	8
	Physical Interface	SFP Slots
	Connector Type	1000BASE-PX20+
	Max splitting ratio	1:64
Management Ports		1*100BASE-TX outband port
		1CONSOLE port
PON Port Specification	Transmission Distance	20KM
	PON port speed	Symmetrical 1.25Gbps
	Wavelength	1490nm TX,1310nm RX
	Connector	SC/PC
	Fiber Type	9/125μm SMF
	TX Power	+2.5~+7dBm
	Rx Sensitivity	-27dBm
Saturation Optical Power	-6dBm	
Management Mode		SNMP, Telnet, CLI management mode.

KOC-ET8016

KOC-ET8016 is 1U high 19 inch rack mount product. The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to deploy in an compact room environment.

The OLT can use for "Triple-Play", CPN, IP Camera, Enterprise LAN and IOT applications. It is a high performance products.

KOC-ET8016 provides 1 USB interface, 4GE(copper) and 4GE optical interface, 2*10Gb uplink interface, and 16 EPON ports for downstream. It can support 1024 ONUs under 1:64 splitter ratio.



Item	Parameter	Specification
KOC-ET8016		
Chassis	Rack	1U 19 inch standard box
	QTY	10
Uplink Port	Copper	10/100/1000M auto-negotiable,RJ45:4pcs
	Optical interface	4 GE
	10Gb uplink interface	2*10Gb
PON Port	QTY	16
	Physical Interface	SFP Slots
	Connector Type	1000BASE-PX20+
	Max splitting ratio	1:64
USB Port	QTY	1
	Connector Type	Type-C
Management Ports		1*100BASE-TX outband port; 1CONSOLE port
PON Port Specification	Transmission Distance	20KM
	PON port speed	Symmetrical 1.25Gbps
	Wavelength	1490nm TX,1310nm RX
	Connector	SC/PC
	Fiber Type	9/125μm SMF
	TX Power	+2.5~+7dBm
10Gb SFP+ Port Specification (Apply to C-Data 10Gb module)	Rx Sensitivity	-27dBm
	Saturation Optical Power	-6dBm
	Transmission Distance	10KM
	PON port speed	8.5-10.51875Gbps
10Gb SFP+ Port Specification (Apply to C-Data 10Gb module)	Wavelength	1310nmTX, 1310nmRX
	Connector	LC
	Fiber Type	Single mode with dual fiber
	TX Power	-8.2~+0.5 dBm
	Rx Sensitivity	-12.6dBm
Management Mode		SNMP, Telnet, CLI management mode.

KOC-GT8008

GPON OLT KOC-GT8008 completely meet relative standard of ITU G.984.x and FSAN, which is 1U rack-mounted device with 1 USB interface, 4 uplink GE ports, 4 uplink optical ports, 2 10-gigabit uplink ports and 8 GPON ports, each GPON port supports the splitting ratio of 1:128 and provides downstream bandwidth of 2.5Gbps and upstream bandwidth of 1.25Gbps, system support 1024 GPON terminals accessing in for the most. This product meets the requirements in device performance and size of compact server room as the product has high performance and compact size, is convenient and flexible to use, and is easy to deploy as well. Moreover, the product meets the requirements of promoting network performance, improving reliability and reducing power consumption in the perspective of access network and enterprise network and is applicable to three-in-one broadcast television network, FTTP (Fiber to the premise), video monitoring network, enterprise LAN (Local Area Network), internet of things and other network applications with a very high price/performance ratio.



Item	Parameter	Specification
KOC-GT8008		
Management Rack	Type	1U 19-inch standard box
	Slot	2 power module slot
Uplink Port	COMBO port	4 10/100/1000M auto-negotiation Ethernet ports
		4 SFP interfaces
	10-Gigabit	2 SFP+ interfaces
PON Port	Quantity	8
	Physical interface	SFP slot
	Interface type	ITU-TG.984.2 Class B+/Class C+
	Max splitting ratio	1:128
Management Port		1 100/1000BASE-Tx out-band Ethernet port 1 CONSOLE local management port
USB Port		1 Type-C interface Similar to the CONSOLE port function, used for serial port login
PON Port attribute	Transmission distance	20KM
	Port rate	Downstream: 2.5Gbps Upstream: 1.25Gbps
	Wavelength	Forwarding: 1490nm Receiving: 1310nm
	Interface type	SC/UPC
	Fiber type	9/125μm SMF (Single Mode Fiber)
	Light transmission power	Class B+ +1.5~+5dBm Class C+ +3~+7dBm
	Receiving sensitivity	Class B+ -28dBm Class C+ -30dBm
Saturation power	Class B+ -8dBm Class C+ -12dBm	
Network management method		Support CLI, SNMP, TELNET, SSH, WEB
Backplane Bandwidth		78G
Size		440mm(L)*391mm(W)*44mm(H)
Weight		4kg
Power supply	220VAC	AC: 90V~240V,47/63Hz
	-48DC	DC:-36V~-72V
Maximum power		70W
Working environment	Working temperature	0~50 ℃
	Storage temperature	-40~85 ℃
	Relative humidity	5~90% (Non-condensing)

KOC-GT8016

GPON OLT KOC-GT8016 completely meet relative standard of ITU G.984.x and FSAN, which is 1U rack-mounted device with 1 USB interface, 4 uplink GE ports, 4 uplink optical ports, 2 10-gigabit uplink ports and 16 GPON ports, each GPON port supports the splitting ratio of 1:128 and provides downstream bandwidth of 2.5Gbps and upstream bandwidth of 1.25Gbps, system support 2048 GPON terminals accessing in for the most. This product meets the requirements in device performance and size of compact server room as the product has high performance and compact size, is convenient and flexible to use, and is easy to deploy as well. Moreover, the product meets the requirements of promoting network performance, improving reliability and reducing power consumption in the perspective of access network and enterprise network and is applicable to three-in-one broadcast television network, FTTP (Fiber to the premise), video monitoring network, enterprise LAN (Local Area Network), internet of things and other network applications with a very high price/performance ratio.



Item	Parameter	Specification
KOC-GT8016		
Management Rack	Type	1U 19-inch standard box
	Slot	2 power module slot
Uplink Port	COMBO port	4 10/100/1000M auto-negotiation Ethernet ports
	10-Gigabit	4 SFP interfaces
	Quantity	2 SFP+ interfaces
PON Port	Physical interface	16
	Interface type	SFP slot
	Max splitting ratio	ITU-TG.984.2 Class B+/Class C+
Management Port		1:128
		1 100/1000BASE-Tx out-band Ethernet port 1 CONSOLE local management port
USB Port		1 Type-C interface
		Similar to the CONSOLE port function, used for serial port login
PON Port attribute	Transmission distance	20KM
	Port rate	Downstream: 2.5Gbps Upstream: 1.25Gbps
	Wavelength	Forwarding: 1490nm Receiving: 1310nm
	Interface type	SC/UPC
	Fiber type	9/125μm SMF (Single Mode Fiber)
	Light transmission power	Class B+ +1.5~+5dBm Class C+ +3~+7dBm
PON Port attribute	Receiving sensitivity	Class B+ -28dBm Class C+ -30dBm
	Saturation power	Class B+ -8dBm Class C+ -12dBm
Network management method		Support CLI, SNMP, TELNET, SSH, WEB
Backplane Bandwidth		108G
Size		440mm(L)*391mm(W)*44mm(H)
Weight		4kg
Power supply	220VAC	AC: 90V~240V, 47/63Hz
	-48DC	DC: -36V~-72V
Maximum power		70W
Working environment	Working temperature	0~50 ℃
	Storage temperature	-40~85 ℃
	Relative humidity	5~90% (Non-condensing)

KOC-E600-100U

KOC-E600-100U data type ONU is one of the EPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH to provide the data and video service based on the EPON network. provide one GE auto-adapting Ethernet ports. features high-performance forwarding capabilities to ensure excellent experience with Internet and HD video services. Therefore, provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucent.



Item	Parameters	Specification
KOC-E600-100U		
Interface	PON Interface	1 EPON optical interface
		Meet 1000BASE-PX20+ standard
		Symmetric 1.25Gbps upstream/downstream
		SC/PC single-mode fiber
Interface	Ethernet Interface	split ratio: 1:64
		Transmission distance 20KM
		1*10/100/1000M auto-negotiation
		Full Duplex / Half-Duplex
Performance Parameters	Power Interface	RJ45 connector
		Auto MDI/MDI-X
		Transmission Distance 100 Meter
		12V DC supply power
Performance Parameters	PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm
		Tx Optical Power: 0~4dBm
		Rx Sensitivity: -27dBm
		Saturation Optical Power: -3dBm
Environmental Specifications	Dimension	Item Dimension: 78mm(L) x78mm(W) x25mm (H)
		Weight
Environmental Specifications	Environment	Item weight: 0.1kg
		Operating Temperature: 0~50 ℃
		Storage Temperature: -40~85 ℃
		Operating Humidity: 10%~90%(Non-condensing)
		Storage Humidity: 10%~90%(Non-condensing)

KOC-E600-100W

KOC-E600-100W is for broadband access market based on the introduction of EPON technology passive optical network terminal products. It's with EPON OLT are used together to provide a complete broadband access solution. can integration wireless function with meet 802.11 n/b/g technical standards, It has two external antenna, the wireless transmission rate up to 300Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.



Item	Parameters	Specification
KOC-E600-100W		
Interface	PON Interface	1 EPON optical interface Meet 1000BASE-PX20+standard Symmetric 1.25Gbps upstream/downstream SC/PC single-mode fiber split ratio: 1:64 Transmission distance 20KM
	Ethernet Interface	1*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	Power Interface	An external 12V DC 0.5A power supply adapter
Performance Parameters	PON Optical Parameter	Wavelength: Tx:1310nm, Rx: 1490nm Tx Optical Power: 0~4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm
	Physical Specifications	Item Dimension: 125mm(L) x80mm(W) x 28mm (H) Item weight: 0.2kg
	Environmental Specifications	Operating temperature: 0 to 50°C Storage temperature: -40 to 85°C Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 10% to 90%(Non-condensing)
WIFI Specification		
Performance parameters	Operating mode	Router or bridge
	Technical standard	IEEE802.11b/g/n
	Frequency	2.412~2.472 GHz
	Antenna gain	5dBi
	Support rate	802.11b: 1, 2, 5.5, 11Mbps
		802.11g: 6, 9, 12, 24, 36, 48, 54Mbps 802.11n: max rate 300Mbps
	Channel	2.4GHz Channel: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 11b: DSSS: DBPSK(1Mbps),DQPSK(2Mbps),CCK(5.5/11Mbps) 11g: OFDM: BPSK(6/9Mbps),QPSK(12/18Mbps), 16QAM(24/36Mbps),Q64QAM(48/54Mbps) 11n: MIMO-OFDM: BPSK,QPSK,16QAM,64QAM
	Receive sensitivity	11Mbps: ≤-90dBm 54 Mbps: ≤-76dBm HT20 MCS7: ≤-73dBm HT40 MCS7: ≤-70dBm
	Transmit power	802.11n: 17dBm
	Encryption mode	AES, TKIP, WPA, WPA2, WPA-PSK/WPA2-PSK

KOC-E600-200T

KOC-E600-200T is fiber to the home multi service access EPON ONU. It's based on the mature, stable, high cost performance EPON technology and has gigabit Ethernet switching, WDM and HFC technology. KOC-E600-200T has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee with technical performance of equipment meet the IEEE802.3ah requirements and have good compatibility with third party manufacturers OLT.



Item	Specification
KOC-E600-200T	
PON Interface	1 EPON optical interface Meet 1000BASE-PX20+standard Symmetric 1.25Gbps upstream/downstream SC single-mode fiber split ratio: 1:64 Transmission distance 20KM
	1*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	1 RF output Female F-Type Connector
User Ethernet Interface	12V DC Power supply Wavelength: Tx 1310nm, Rx1490nm Item weight: 0.2kg Tx Optical Power: 0~4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm Connector Type: SC Optical Fiber: 9/125μm single-mode fiber
Power Interface	
PON Optical Parameter	
CATV	
Wavelength	1550nm
Optical return loss	>45dB
Input optical power	-15dBm~+2dBm
RF frequency	47MHz~1000MHz
RF output lever	≥65dBuV (@-12dBm@85MHz)
Flatness	<±1.5db
CNR	≥42dB (@-10dBm@DS22 Channel)
CSO	≤-60dBc (@-10dBm@DS22 Channel)
CTB	≤-65dBc (@-10dBm@DS22 Channel)
RF output return loss	>10dB
RF impedance	75Ω

KOC-E600-400PW

KOC-E600-400PW EPON HGU ONU is one of the EPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data, voice and video service based on the EPON network. provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucent.



Item	Parameters	Specification
KOC-E600-400PW		
		1 EPON optical interface
		Meet 1000BASE-PX20+ standard
	Uplink Interface	Symmetric 1.25Gbps upstream/downstream
		SC single-mode fiber
		split ratio: 1:64
		Transmission distance 20KM
	POTS Port	2*RJ11 with 3REN
		Max 1km distance
		Balanced Ring, 50V RMS
		4*10/100/1000M auto-negotiation
Interface	Ethernet Interface	Full/half duplex mode
		RJ45 connector
		Auto MDI/MDI-X
		100m distance
	USB interface	1*USB 2.0 interface
		Transmission Rate: 480Mbps
	Power	External 12VDC/1A power supply adapter
		Power consumption: <7W
	Dimension	Item Dimension : 170mm(L) x 130mm(W) x 30mm (H)
	Weight	Item weight : 0.3kg
Physical Features	Environmental Specifications	Operating temperature: 0 to 50°C
		Storage temperature: -40 to 85°C
		Operating humidity: 10% to 90%(Non-condensing)
		Storage humidity: 10% to 90%(Non-condensing)
WIFI Specification		
	Operating Mode	Router or bridge
	Antenna gain	5dBi
	WIFI antenna	2 external antennas
Performance parameters	Throughput	IEEE 802.11b: 11Mbps
		IEEE 802.11g: 54 Mbps
		IEEE 802.11n: 300Mbps
	Frequency	2.412~2.472 GHz
	Channel	13*Channel, configurable to meet the standard of USA, Canada, Japan and China

KOC-E600-400U

EPON technology is a kind of emerging technology which takes advantage of PON technology and Ethernet technology also is a kind of point to multi-point network technology. OLT through the passive optical network to connect multiple ONU with single fiber bidirectional .KOC-E600-400U series fully meet IEEE802.3ah and CTC3.0 standard protocol. It has good third-party compatibility to work with the third party OLT, It supports 1Gbps transmission rate up and down and provides users with good QOS, flexible bandwidth allocation of Ethernet services and IP integrated service.



Item	Specification
KOC-E600-400U	
	1 EPON optical interface
	Meet 1000BASE-PX20+ standard
PON Interface	Symmetric 1.25Gbps upstream/downstream
	SC/UPC single-mode fiber
	split ratio: 1:64
	Transmission distance 20KM
	4*10/100M or 4*10/100/1000M auto-negotiation
	Full/half duplex mode
User Ethernet Interface	RJ45 connector
	Auto MDI/MDI-X
	100m distance
Power Interface	An external 12V DC 0.5A power supply adapter
	Wavelength: Tx 1310nm, Rx1490nm
PON Optical Parameter	Tx Optical Power: 0~4dBm
	Rx Sensitivity: -27dBm
	Saturation Optical Power: -3dBm
Physical Specifications	Item Dimension : 160mm(L) x 120mm(W) x 32.5mm (H)
	Item weight : 0.2kg
Environmental Specifications	Operating temperature: 0 to 50 °C
	Storage temperature: -40 to 85 °C
	Operating humidity: 10% to 90%(Non-condensing)
	Storage humidity: 10% to 90%(Non-condensing)

KOC-E600-400W

KOC-E600-400W dual-frequency data type ONU for broadband access market based on the introduction of EPON technology passive optical network terminal products. It's with EPON OLT are used together to provide a complete broadband access solution. can integrate wireless function with meet 802.11 a/b/g/n/ac technical standards. At the same time, it also supports 2.4GHz/5GHz dual-band wireless signal. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.



Item	Parameters	Specification	
KOC-E600-400W			
Interface	PON Interface	1 EPON optical interface	
		Meet 1000BASE-PX20+standard	
		Symmetric 1.25Gbps upstream/downstream SC/PC single-mode fiber split ratio: 1:64 Transmission distance 20KM	
Ethernet Interface	Ethernet Interface	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance	
		Power Interface	An external 12V DC power supply adapter
		Performance Parameters	PON Optical Parameter
Physical Specifications	Item Dimension: 160mm(L) x 120mm(W) x 32.5mm (H) Item weight: 0.2kg		
	Environmental Specifications		

WiFi Specification

- Comply with IEEE 802.11a/b/g/n/ac protocol standard, support 2.4GHz and 5GHz
- There are four antennas, two built-in, two external
- 5dBi antenna gain
- Maximum ideal rate up to 1.2Gbps
- 2.4GHz supports 2*2 MIMO (Multiple-Input Multiple-Output) technology
- 5GHz supports 2*2 MIMO (Multiple-Input Multiple-Output) technology
- Support 8 SSIDs
- Support wider RF bandwidth, up to 80MHz
- Support higher 256-QAM modulation mode
- Support MIMO-OFDM encoding mode
- Support wireless security of 64/128 bit WEP, 802.1x, WPA and WPA2

KOC-G600-100U

KOC-G600-100U GPON is the latest generations of access network technology. ITU-T G.984 is the standard protocol of GPON. The GPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. GPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QOS) for delay-sensitive voice and video communications traffic. GPON networks provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. GPON enables Fiber To The Home (FTTH) deployments economically resulting to accelerated growth worldwide. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucent.



Item	Parameter	Specification	
KOC-G600-100U			
Interface	PON Interface	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/PC single mode fiber 28dB Link loss and 20KM distance with 1:128	
		Ethernet Interface	1*10/100/1000M auto-negotiation Full Duplex/Half-Duplex RJ45 Connector Auto MDI/MDI-X Transmission Distance 100 Meter
			Performance Parameters
Environmental Specifications	Power	External 12V/0.5A DC power supply adapter Power consumption: <3W	
	Dimension	Item Dimension: 78mm (L) x78mm (W) x25mm (H)	
	Weight	Item weight: 0.1kg	
Environment	Environment	Operating Temperature: 0~50 °C Storage Temperature: -40~85 °C Operating Humidity: 10%~90% (Non-condensing) Storage Humidity: 10%~90% (Non-condensing)	

KOC-G600-100W

KOC-G600-100W GPON ONT is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH to provide the data service based on the GPON network. have a high reliability and provide quality of service guarantee- easy management, flexible expansion and networking. It's fully meet the ITU-T technical standards and have good compatibility with third party manufacturers OLT. can integration wireless function with meet 802.11 n/b/g technical standards, It has built-in high gain directional antenna, the wireless transmission rate up to 300Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.



Item	Parameter	Specification
KOC-G600-100W		
Interface	PON Interface	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/PC single mode fiber 28dB Link loss and 20KM distance with 1:128
	Ethernet Interface	1*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
Performance Parameters	PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0.5~5dBm Rx Sensitivity: -28dBm Saturation Optical Power: -8dBm
	Power	<4W, 12V/0.5A power supply adapter
Physical Features	Physical Specifications	Item Dimension: 125mm (L) x80mm (W) x 28mm (H) Item weight: 0.2kg
	Environmental Specifications	Operating temperature: 0 to 50°C Storage temperature: -40 to 85°C Operating humidity: 10% to 90% (Non-condensing) Storage humidity: 10% to 90% (Non-condensing)
WIFI Specification		
Performance parameters	Operating Mode	Router or bridge
	Technical standard	IEEE802.11b/g/n
	Frequency	2.412~2.472 GHz
	Antenna gain	5dBi
	Support rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 24, 36, 48, 54Mbps 802.11n: max rate 300Mbps
	Channel	2.4GHz Channel: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
	Encryption mode	AES, TKIP, WPA, WPA2, WPA-PSK/WPA2-PSK

KOC-G600-200T

KOC-G600-200T is fiber to the home multi service access GPON ONT. It's based on the mature, stable, high cost performance GPON technology and has gigabit Ethernet switching, WDM and HFC technology. KOC-G600-200T has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee with technical performance of equipment meet the ITU G. 984 requirements and have good compatibility with third party manufacturers OLT.



Item	Specification
KOC-G600-200T	
PON Interface	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.25Gbps SC/PC single mode fiber 28dB Link loss and 20KM distance with 1:128
	1*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
User Ethernet Interface	1 RF output Female F-Type Connector Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0.5~5dBm Rx Sensitivity: -28dBm Saturation Optical Power: -8dBm
	<5W, 12V/0.5A power supply adapter Item Dimension: 130mm (L)*90mm (W)*30mm (H) Item weight: 0.2kg Operating temperature: 0 to 50°C Storage temperature: -30 to 60°C Operating humidity: 10% to 90% (Non-condensing) Storage humidity: 5% to 95% (Non-condensing)
CATV	
Wavelength	1550nm
Optical return loss	>45dB
Input optical power	-15dBm~+2dBm
RF frequency	47MHz~1000MHz
RF output lever	≥65dBuV (@-12dBm@85MHz)
Flatness	<±1.5db
CNR	≥42dB (@-10dBm@DS22 Channel)
CSO	≤-60dBc (@-10dBm@DS22 Channel)
CTB	≤-65dBc (@-10dBm@DS22 Channel)
RF output return loss	>10dB
RF impedance	75Ω

KOC-G600-400PTW

KOC-G600-400PTW triple play ONU is fiber to the home multi service access GPON ONU. It's based on the mature, stable, high cost performance GPON technology and has gigabit Ethernet switching, WDM and HFC technology. KOC-G600-400PTW has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee with technical performance of equipment meet the ITU G. 984 requirements and have good compatibility with third party manufacturers OLT.



Item	Parameter	Specification
KOC-G600-400PTW		
		1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/PC single mode fiber 28dB Link loss and 20KM distance with 1:128
	PON Interface	
	CATV Interface	1 RF output F-Type Connector
Interface	POTS Interface	2*RJ11 Max 1km distance Balanced Ring, 50V RMS 4*10/100/1000M auto-negotiation Full/half duplex mode
	Ethernet Interface	RJ45 connector Auto MDI/MDI-X 100m distance
	USB interface	1*USB 2.0 interface Transmission Rate: 480Mbps
	Power	External 12VDC/1A power supply adapter Power consumption: <7W
Physical Features	Dimension and Weight	Item Dimension: 200mm (L) x 140mm (W) x 32mm (H) Item weight: 0.3kg
	Environmental Specifications	Operating temperature: 0 to 50°C Storage temperature: -40 to 85°C Operating humidity: 10% to 90% (Non-condensing) Storage humidity: 10% to 90% (Non-condensing)
CATV		
	Wavelength	1550nm
	Optical return loss	>45dB
	Input optical power	-15dBm~+2dBm
	RF frequency	47MHz~1000MHz
	RF output lever	≥65dBuV (@-12dBm@85MHz)
Performance parameters	Flatness	<±1.5db
	CNR	≥42dB (@-10dBm@DS22 Channel)
	CSO	≤-60dBc (@-10dBm@DS22 Channel)
	CTB	≤-65dBc (@-10dBm@DS22 Channel)
	RF output return loss	>10dB
	RF impedance	75Ω

KOC-G600-400U

KOC-G600-400U series GPON ONT is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH to provide the data, video service based on the GPON network. have a high reliability and provide quality of service guarantee、easy management, flexible expansion and networking. It's fully meet the ITU-T technical standards and have good compatibility with third party manufacturers OLT.



Item	Specification
KOC-G600-400U	
	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/UPC single mode fiber 28dB Link loss and 20KM distance with 1:128 4*10/100M or 4*10/100/1000M auto-negotiation Full/half duplex mode
PON Interface	
User Ethernet Interface	RJ45 connector Auto MDI/MDI-X 100m distance
PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0.5~5dBm Rx Sensitivity: -28dBm Saturation Optical Power: -8dBm
Power	4FE: <3W, 12V/0.5A power supply adapter 4GE: <4W, 12V/0.5A power supply adapter
Physical Specifications	Item Dimension: 160mm (L) x 120mm (W) x 32.5mm (H) Item weight: 0.2kg
Environmental Specifications	Operating temperature: 0 to 50°C Storage temperature: -40 to 85°C Operating humidity: 10% to 90% (Non-condensing) Storage humidity: 10% to 90% (Non-condensing)

KOC-G600-400W

KOC-G600-400W dual-frequency data type ONU is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH to provide the data, video service based on the GPON network. have a high reliability and provide quality of service guarantee. easy management, flexible expansion and networking. It's fully meet the ITU-T technical standards and have good compatibility with third party manufacturers OLT. can integration wireless function with meet 802.11 a/b/g/n/ac technical standards. At the same time, it also supports 2.4GHz/5GHz dual-band wireless signal. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.



Item	Parameter	Specification
KOC-G600-400W		
Interface	PON Interface	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/UPC single mode fiber 28dB Link loss and 20KM distance with 1:128
	Ethernet Interface	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0.5~5dBm Rx Sensitivity: -28dBm Saturation Optical Power: -8dBm
Performance Parameters	Power	External 12V DC/1A power supply adapter Power consumption: <7.5W
	Physical Specifications	Item Dimension: 160mm (L) x 120mm (W) x 32.5mm (H) Item weight: 0.2kg
Physical Features	Environmental Specifications	Operating temperature: 0 to 50°C Storage temperature: -40 to 85°C Operating humidity: 10% to 90% (Non-condensing) Storage humidity: 10% to 90% (Non-condensing)

WIFI Specification

- Comply with IEEE 802.11a/b/g/n/ac protocol standard, support 2.4GHz and 5GHz
- There are four antennas, two built-in, two external
- 5dBi antenna gain
- Maximum ideal rate up to 1.2Gbps
- 2.4GHz supports 2*2 MIMO (Multiple-Input Multiple-Output) technology
- 5GHz supports 2*2 MIMO (Multiple-Input Multiple-Output) technology
- Support 8 SSIDs
- Support wider RF bandwidth, up to 80MHz
- Support higher 256-QAM modulation mode
- Support MIMO-OFDM encoding mode
- Support wireless security of 64/128 bit WEP, 802.1x, WPA and WPA2

KOC-G600-400PW

KOC-G600-400PW GPON HGU ONT is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data, voice and video service based on the GPON network. provide two POTS ports, four 10/100/1000M adaptive Ethernet ports, one USB port, and 802.11 b/g/n Wi-Fi access. The KOC-G600-400PW features high-performance forwarding capabilities to ensure excellent experience with VoIP, Internet and HD video services. Therefore, the KOC-G600-400PW provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucent.



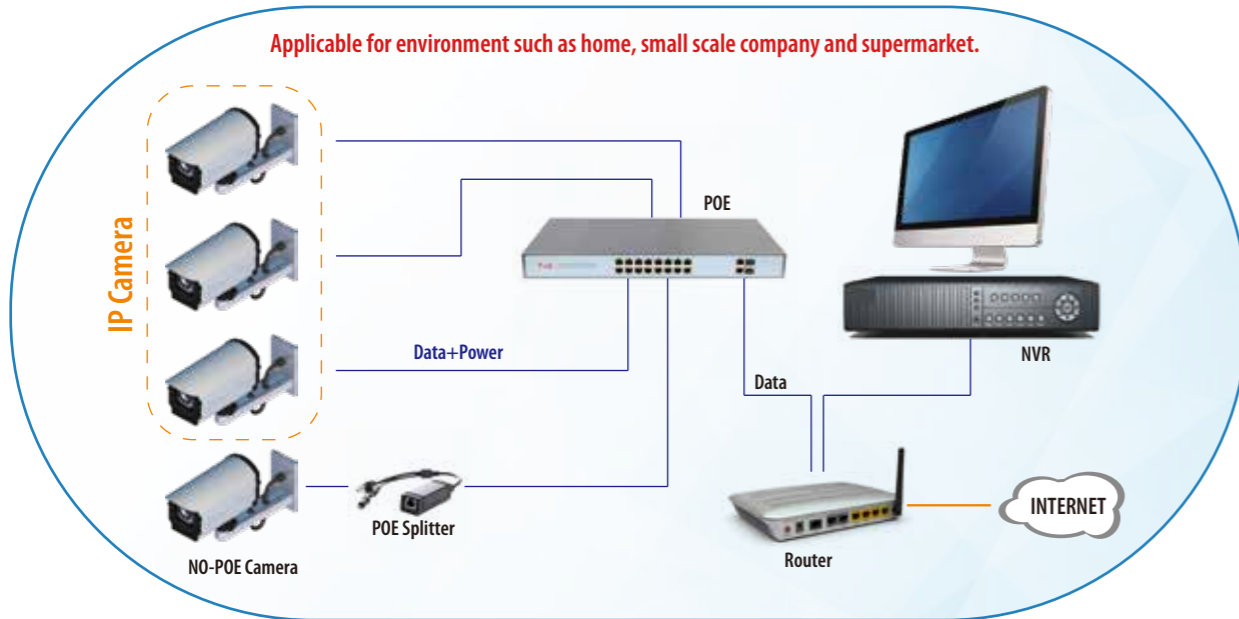
Item	Parameter	Specification
KOC-G600-400PW		
Interface	Uplink Interface	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate : 2.488Gbps Upstream Data Rate : 1.244Gbps SC/PC single mode fiber 28dB Link loss and 20KM distance with 1:128
	POTS Port	2*RJ11 with 3REN Max 1km distance Balanced Ring, 50V RMS
	Ethernet Interface	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
Performance Parameters	USB interface	1*USB 2.0 interface Transmission Rate: 480Mbps
	Power Interface	12V DC Power supply Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0.5 ~ 5dBm Rx Sensitivity: -28dBm Saturation Optical Power: -8dBm Connector Type: SC
Network Management	Management Mode	Standard compliant OMCI interface as defined by ITU-T G.984.4 Support TR069 and WEB management
	Dimension and Weight	Item Dimension : 170mm(L) x 130mm(W) x 30mm (H) Item weight : 0.3kg
Environmental Specifications	Environmental Specifications	Operating temperature: 0 to 50°C Storage temperature: -40 to 85°C Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 10% to 90%(Non-condensing)

WIFI Specification

- IEEE 802.11n compliant, 2.4 GHz
- Full IEEE 802.11b/g legacy compatibility with enhanced performance
- Two-stream spatial multiplexing up to 300 Mbps PHY data rates
- Support multi-SSID (Maximum 4 SSID)
- Support automatic channel selection
- Support hide SSID
- Support wireless security of 64/128 bit WEP、802.1x、WPA and WPA2

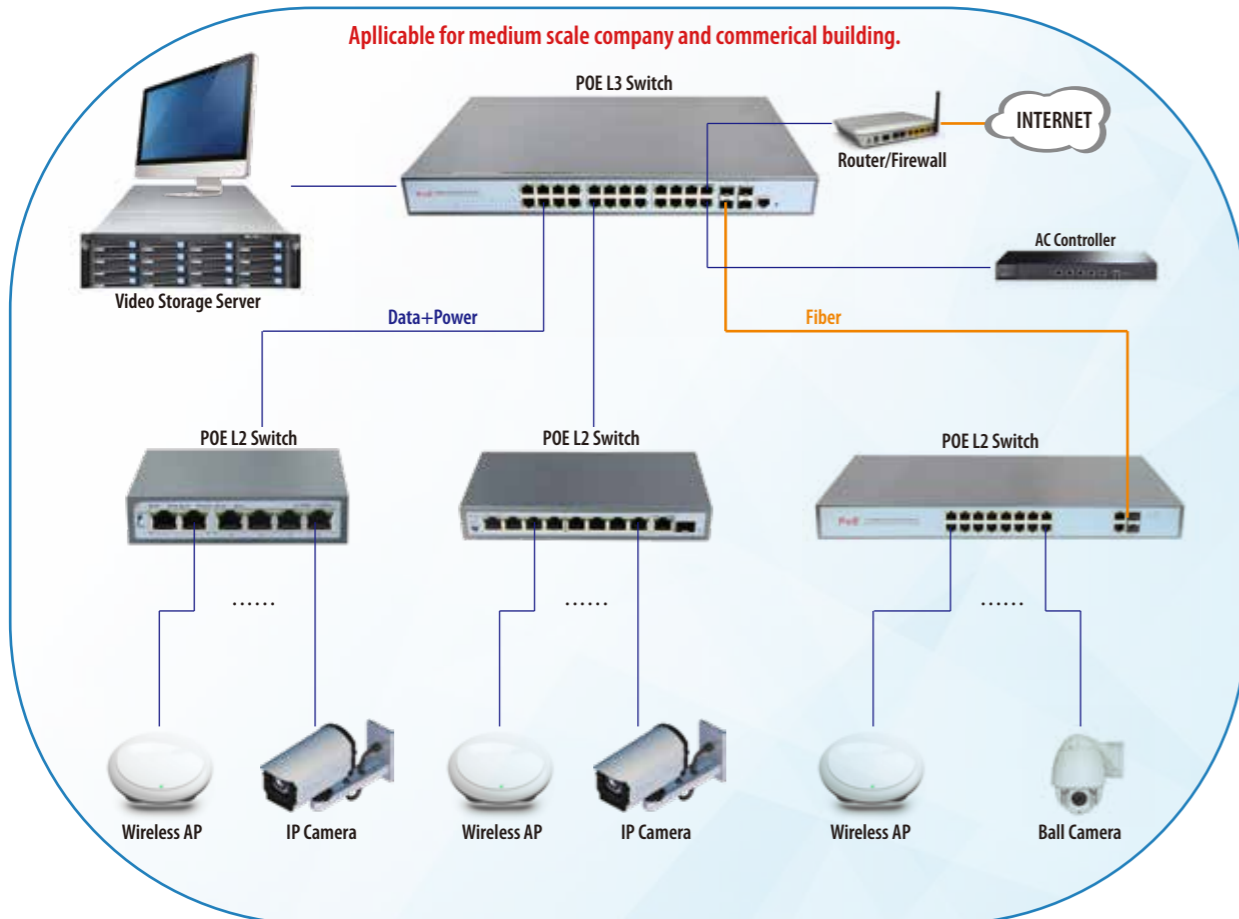
Monitor System Solutions

Applicable for environment such as home, small scale company and supermarket.



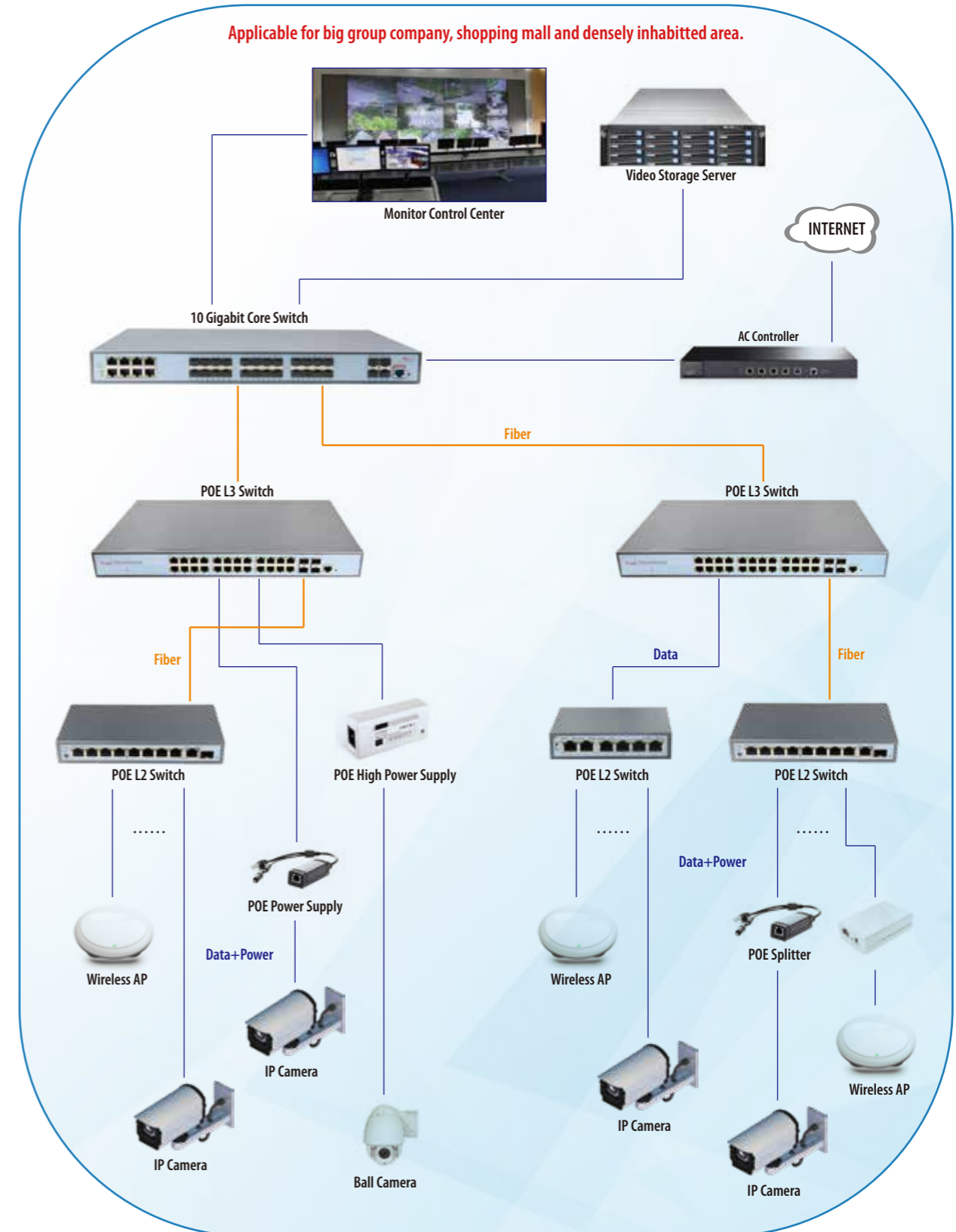
- 100/1000Mbps POE switch
- IP Camera
- Wifi Router
- NVR(video decoder) and LED monitor
- POE Splitter

Applicable for medium scale company and commercial building.



- 100/1000Mbps POE switch
- IP Camera
- Wifi Router
- NVR(video decoder) and LED monitor
- Wifi AC/AP
- Video storage server

Applicable for big group company, shopping mall and densely inhabited area.



- 100/1000Mbps POE switch
- IP Camera
- Wifi Router
- NVR(video decoder) and LED monitor
- Wifi AC/AP
- Video storage server
- POE high power supply/POE splitter

KOC-P1008FE-2GF 10-Port 10/100Mbps PoE Switch

The KOC-P1008FE-2GF series is a 10/100M unmanaged PoE switch. It has 8*10/100M PoE ports and 1*10/100/1000M uplink RJ45 ports and 1*1000M uplink SFP ports. Port 1-8 can support IEEE 802.3af/at standard PoE power supply, and single port PoE power reaches 30W. The maximum PoE output power is 110W. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP, visual intelligent building intercom through network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for hotel, campus, factory dormitory and small and medium-sized enterprises. Unmanaged model, plug and play, no configuration, easy to use.



Item	Specification
KOC-P1008FE-2GF	
Interface	8*10/100Base-TX PoE ports (Data/Power) 1*10/1000Base-TX Uplink RJ45 port (Data) 1 *1000M SFP optical port (Data)
POE Port	Port 1-8 support PoE @ IEEE802.3af/at
Functional Switch	1*(S,E,V) Note: When the switch status changes, the PoE switch must be restarted for the switch function to take effect.
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3x
PoE Standard	IEEE802.3af/at
Ethernet Port Feature	Port 1-9 support 10/100Base-T(X) automatic detection, full/half Duplex MDI/MDI-X adaptive
Fiber Port Feature	Store and Forward(Full Wire Speed)
Backplane bandwidth	3.6Gbps(non-blocking)
Forwarding Rate@64byte	4.17Mpps
MAC	2K
Buffer Memory	2M
Twisted Pair Transmission	10BASE-T:Cat3,4,5 UTP(≤250 meter) 100BASE-TX:Cat5 or later UTP(≤100 meter)
Power Supply Pin	Default 1/2(+), 3/6(-);Optional 4/5(+), 7/8(-)
MAX / AVERAGE Power Per Port	15.4W@IEEE802.3af;30W@ IEEE802.3at
Total PWR / Input Voltage	110W (DC 52V)
Power Consumption	Standby:<5W;Full load:<110W
LED Indicator	Power Indicator: P (green); Network : Link (yellow); POE Indicator : PoE (green)
Power Supply	External power adaptor AC100~240V 50-60Hz 2A
Operation TEMP / Humidity	-20~+55°C;5%~90% RH non condensing
Storage TEMP / Humidity	-40~+75°C;5%~95% RH non condensing
Dimension	191*108*29mm
Net /Gross Weight	<0.5kg / <1kg
Installation Method	desktop type ,wall mounted
Port lightning protection	4KV 8/20us;
protection level	IP30
Certification	CCC;CE mark, commercial;CE/LVD EN60950; FCC Part 15 Class B;RoHS
Warranty	1years, lifetime maintenance.

KOC-P1016FE-2GF 18-Port Gigabit Uplink PoE Fiber Switch

The KOC-P1016FE-2GFseries is an unmanaged PoE fiber switch. It has 16*10/100M PoE ports and 2*10/100/1000M uplink RJ45 ports and 2*1000M uplink TP/SFP combo ports . Port 1-16 can support IEEE 802.3af/at standard PoE power supply, and single port PoE power reaches 30W. The maximum PoE output power is 250W. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP, visual intelligent building intercom through network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for hotel, campus, factory dormitory and small and medium-sized enterprises. Unmanaged model, plug and play, no configuration, easy to use.



Item	Specification
KOC-P1016FE-2GF	
Interface	16*10/100Base-TX PoE ports (Data/Power) 2*10/100/1000M uplink RJ45 ports (Data) 2*1000M uplink SFP slot ports (combo port)
POE Port	Port 1-16 support PoE standard @ IEEE802.3af/at IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX;
Network Protocol	IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x
PoE Standard	IEEE802.3af/at
Ethernet Port Feature	10/100Base-T(X) 10/100/1000Base-T automatic detection, full/half Duplex MDI/MDI-X adaptive
Fiber Port Feature	Gigabit SFP Port (Fiber module is not included, need to order separately, module options include single/multi mode, single/dual fiber, LC)
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	14.8Gbps (Non-blocking)
Forwarding Rate@64byte	5.36Mpps
MAC	4K
Buffer Memory	4M
Jumbo frames	10K
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter); 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
Optical Cable	Multi mode: 850nm 0~550M,Single mode:1310nm 0~40KM , 1550nm 0~120KM
Power Supply Pin	Default: 1/2(+), 3/6(-); Optional: 4/5(+), 7/8(-)
MAX / AVERAGE Power Per Port	15.4W@IEEE802.3af; 30W@ IEEE802.3at
Total PWR / Input Voltage	250W(AC100-240V)
Power Consumption	Standby: <15W; Full load: <250W
LED Indicator	Power indicator: PWR(green) network indicator: Link, Link/Act(yellow), PoE indicator: PoE (green); Speed indicator:1000M (green)
Power Supply	Built in switching power supply. AC100~240V 50-60Hz 4.1A
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+75°C, 5%~95% RH Non condensing
Dimension	440*225*44mm
Net /Gross Weight	<2.8kg/<3.4kg
Installation Method	desktop type ,wall mounted,19 inch 1U cabinet installation
Port lightning protection	4KV 8/20us;
protection level	IP30
Certification	CCC;CE mark, commercial;CE/LVD EN60950; FCC Part 15 Class B;RoHS
Warranty	1 years, lifetime maintenance.

KOC-PM1024GE-4GF 28-port Full Gigabit Managed PoE Switch

The KOC-PM1024GE-4GF series is layer two plus full gigabit managed fiber PoE switch. It has 24*10/100/1000Base-T RJ45 ports and 4*100/1000Base-X SFP fiber slot ports. Port 1-24 can support IEEE 802.3af standard PoE power supply. the maximum power for each port is 30W, and the maximum PoE output power is 400W (at-600W). As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, building visual access control intercom through network cable, to meet the network environment that needs high-density PoE power supply, suitable for hotels, campuses, parks, supermarkets, scenic spots, Factory quarters and SMB small and medium-sized enterprises form a cost-effective network.



Item	Specification
KOC-PM1024GE-4GF	
Interface	24*10/100/1000Base-T PoE ports (Data /Power); 4*100/1000Base-X Uplink SFP ports (Data) 1*Console RS232 port (115200,N,8,1)
POE Port	Port 1 - 24 can support IEEE802.3af PoE standard IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX
Network Protocol	IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x
PoE Standard	IEEE802.3af/at International Standard
Ethernet Port	10/100/1000Base-T,Auto-sensing,Full/half duplex MDI/MDI-X self-adaption
Fiber Port Feature	Gigabit SFP fiber interface (Fiber module is not included, need to order separately, module options include single/multi mode, single/dual fiber, LC)
Forwarding Mode	Store and Forward (Full wire speed)
Switching Capacity	56Gbps (Non-blocking)
Forwarding Rate@64byte	38.69Mpps
MAC	8K
Buffer Memory	4M
Jumbo Frames	9.6K
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) ; 100BASE-TX: Cat5 or later UTP(≤100 meter) ; 1000BASE-X: Cat5e or later UTP(≤100 meter)
Optical Fiber Cable	Multi Mode: 850nm 0-550M;Single Mode: 1310nm 0-40KM,1550nm 0-120KM.
Power Supply Pin	Default: 1/2(+), 3/6(-);
MAX / Average Power Per Port	15.4W@IEEE802.3af ;30W@ IEEE802.3at
Total PWR / Input Voltage	400W (AC100-240V)
Power Consumption	Standby:<18W; Full Load:<380W
LED Indicator	Power indicator : PWR (yellow); system indicator : SYS (yellow); network indicator: Link (yellow); POE indicator : PoE (green); Rate indicator: speed: (green) ; SFP fiber port :L/A (green)
Power Supply	Built in power supply, AC100~240V 50-60Hz 5.0A
Operation TEMP/Humidity	-20~+55°C; 5%~90% RH Non-condensing
Storage TEMP/Humidity	-40~+75°C; 5%~95% RH Non-condensing
Dimension	440*290*44.5mm
Net/Gross Weight	<4.4kg / <5.0kg
Installation Method	desktop type ,19 inch 1U cabinet installation
Port lightning protection	4KV 8/20us;
protection level	IP30
Certification	CCC;CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;
Warranty	1 years ,lifelong maintenance.

KOC-M1008GE-24GF-4XG 36-Port 10G Uplink Layer Three Managed Ethernet Fiber Switch

The KOC-M1008GE-24GF-4XG series is a managed 10G uplink Ethernet fiber switch. It has 8*10/100/1000Base-T RJ45 ports and 24*100/1000Base-X SFP fiber slot ports and 4*1/10G SFP+ fiber slot ports. Each port can support wire-speed forwarding. The KOC-M1008GE-24GF-4XG has the layer three full network management function, supports IPV4/IPV6 management, supports static route full line rate forwarding, supports complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as port traffic control, VLAN division, and SNMP through the Web network management mode. It satisfies high-density network application environment and is suitable for medium, large-scale scenes such as hotels, campuses, parks, shopping malls, scenic spots, hospitals, banks to form an economical, efficient and reliable communication network.



Item	Specification
KOC-M1008GE-24GF-4XG	
Interface	8*10/100/1000Base-T RJ45 ports (Data) 24*100/1000Base-X SFP ports (Data) 4*1/10G SFP+ uplink fiber ports (Data) 1*Console RS232 port (115200,N,8,1)
Managed Type	L3
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-LX/SX/CX IEEE802.3ae 10GBase-SR/LR;IEEE802.3x
Ethernet Port Feature	Port1-8 10/100/1000Base-T,auto-sensing,full/half duplex MDI/MDI-X self-adaption
SFP Port Characteristic	Gigabit SFP /10 Gigabit SFP+ fiber interface, default matching fiber modules, need to buy separately, (optional single-mode/multi-mode, single fiber / dual fiber module, LC)
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	598Gbps
Forwarding Rate@64byte	107.14Mpps
MAC Address Table	32K
Buffer Memory	32M
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) ; 100BASE-TX: Cat5 or later UTP(≤100 meter) ; 1000BASE-T: Cat5e or later UTP(≤100 meter)
Optical cable	Multi-mode: 850nm 0~300M(10G), 850nm 0~550M(1.25G) Single-mode: 1310nm 0~40KM, 1550nm 0~120KM .
Total PWR / Input Voltage	60W/(AC100-240V)
Power Consumption	Standby:<20W, full load:<40W
LED	Power: PWR (yellow), system: SYS(yellow), network: Link(yellow), fiber port: L/A(green)
Reset switch	Support one key to restore factory settings
Power Supply	Built-in power supply, AC: 100 ~240V 50-60Hz 1A
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+80°C, 5%~95% RH Non condensing
Dimension(L*W*H)	440*290*44.5mm
Net /Gross Weight	<3.5kg /<4.3kg
Installation Method	Desktop.19 inch 1U cabinet installation
Anti-surge / Protection Level	Anti-surge: 4KV 8/20us, Protection Level, IP30
Certification	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS
Warranty	1 years, lifetime maintenance

Application Scenarios

High-rise Monitor



Supermarket



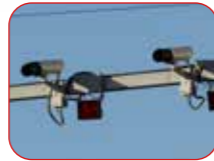
Bank



Banned area



Traffic Monitor



Alley



Car Parking



Indoor Monitor



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