

High-Density Rack-Mounted GPON OLT

KDPA3600-08C

Product Overview

KDPA 3600-08C complies with ITU-T G.984/G.988 and meets requirements about GPON OLT in Network Access Technical Requirements. It fully supports CTC2.0, automatic discovery and cooperation with ONUs of different manufacturers.

KDPA 3600-08C supports the Asymmetric uplink 1.25Gbps/downlink 2.5Gbps

PON transmission rate, efficient bandwidth usage and Ethernet services, helping carriers to provide reliable services to their users.

Its coupling ratio ups to 1:128, and its support of different hybrid ONU networks minimizes the carrier's investment.

KDPA 3600-08C supports routing functions such as RIP and OSPF.

KDPA 3600-08C, based on the edge-cutting technologies, is strong in functions and QoS guarantee, SLA and DBA can be easily listed out.



Product Characteristics

GPON: Abiding by ITU-T G.984/G.988, KDPA 3600-08C OLT meets relevant requirements of GPON OLT regulated in Network Access Technical Requirements and China Telecom GPON Technical Requirements CTC2.0;

System capacity: KDPA 3600-08C supports 8 GPON ports.

Uplink interface: KDPA 3600-08C is equipped with 4 GE RJ45 ports and 8 10GE SFP+ ports.

Dimensions: 1U, occupies a small space.

Environmental protection: low power consumption and low operating cost.

Bus optical fiber protection: the link can be automatically switched when trouble occurs in the optical fiber.

Support 1.25Gbps uplink and 2.5Gbps downlink bandwidth



Efficient bandwidth usage and Ethernet services



The Splitting ratio ups to 1:128



Model

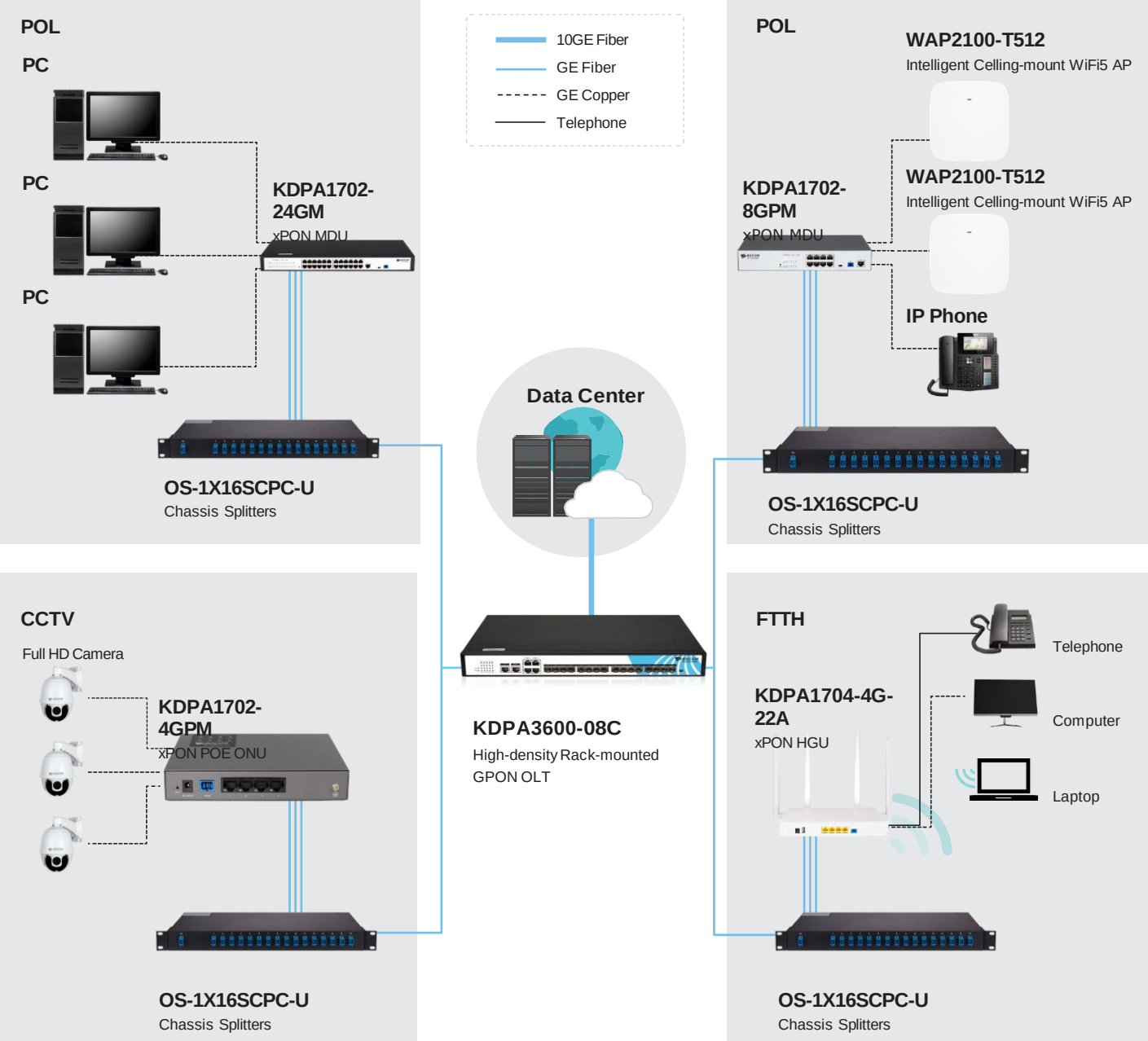
KDPA3600-08C

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- 8-Port GPON
- 8-Port 10G/GE SFP+
- 4-Port Gigabit RJ45
- 1-Port console
- 1-Port out-band

Application Diagram



KDPA 3600-08C

System Performance

Item	KDPA3600-08C
Service interface	
PON ports	8
GE uplink	4-Port Gigabit RJ45
10GE uplink	8-Port 10G/GE SFP+
Supported GPON SFP module	Class B+, C+, C++, C+++
Management interface	
RJ45 console	1
Mini-USB console	1
Out-of-Band	1
System capacity	
DRAM (MB)	2048
Flash (MB)	4096
Backplane (Gbps)	880
MAC table	128K
Buffer size (MB)	4.5
Jumbo frame (KB)	2
Active VLAN	4,094
SVI number	100
Forwarding mode	Store-and-forward

Technical Specifications

Standards

- ITU-T G.984/G.988
- IEEE 802.11D, Spanning Tree
- IEEE 802.1Q, VLAN
- IEEE 802.1w, RSTP
- IEEE 802.3ad physical link static/dynamic aggregation (LACP), Ethernet - II

VLAN

- Port/IP/Protocol/MAC-based VLAN
- 4K VLAN
- QinQ and flexible QinQ

Multicast

- L2 multicast
- IGMP snooping
- MLD snooping
- Fast-leave

Layer 3 Function

- Static route
- RIPv1/v2
- OSPF

QoS

- Backpressure flow control (half duplex)
- IEEE 802.3x flow control (full duplex)
- IEEE 802.1p, CoS
- WRR, SP and FIFO queue schedule
- Limiting the uplink/downlink rate based on each ONU
- DBA and SLA

Reliability

- Unidirectional Link Detection (UDLD)
- Abnormal luminescence ONU detection such as long luminescence
- IEEE 802.3ad LACP

DHCP Function

- Server/Relay/Client
- DHCP snooping
- DHCP option 66,67,82
- DAI
- IP source guard

Network Availability

- STP/RSTP/MSTP
- BPDU guard
- EAPS

Network Security

- L2~4 ACL
- Flow-based ACL
- MAC limitation
- MAC sticky
- Port isolation
- Packet storm control
- Transmission data encryption on the PON interface
- Anti attack for DDOS, TCP-SYN-flood, UDP-flood, ARP-flood, etc.

Management

- Various management modes such as CLI, Telnet, SSH, HTTP, SSL and SNMP
- ISSU
- FTP/TFTP
- SPAN/RSPAN
- NTP

Physical Characteristics

Item		KDPA3600-08C
Power supply		
AC (V)		100~240
Max. consumption (W)		60
Total output BTU (note: 1000 BTU/hr = 293W)		204.8
Cooling system		
Fan number	Fan number	3
Air-flow		Left-right
Noise@25°C(dBA)		< 45
Appearance		
Chassis	Dimensions(WxDxH mm)	440.5 x 280 x 44.5
	Weight (Kg)(empty)	4.2
Package	Dimensions(WxDxH mm)	576 x 448 x 94
	Weight (Kg)	5.8
Environmental specifications		
Operating	Temperature	0~45°C
	Humidity (non-condensing)	10%~85%
Accessories		
Storage	Humidity (non-condensing)	5%-95%
Parts	Power cord, rackmount kits, console cable	
Reliability		
MTBF (Hr)		> 200,000
Certification		CE, FCC, ROHS

Ordering Information

Model	Description
KDPA 3600-08C	8-Port GPON OLT with 8-Port PON (excluding OLT SFP module) + 4-Port Gigabit RJ45 + 8-Port 10GE SFP+; (2 power slots, with single AC100~240V power supply, 19-inch rack-mounted installation)
KDPA 3600-08C-DC	8-Port GPON OLT with 8-Port PON (excluding OLT SFP module) + 4-Port Gigabit RJ45 + 8-Port 10GE SFP+; (2 power slots, with single DC36~72V power supply, 19-inch rack-mounted installation)
PWR-100-AC	OLT AC power supply (input voltage AC100~240V, maximum power 100W, independent fan cooling).
PWR-100-DC	OLT DC power supply (input voltage DC36~72V, maximum power 100W, independent fan cooling).
OLT-GSFP-B+	OLT SFP module (Class B+ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface)
OLT-GSFP-C+	OLT SFP module (Class C+ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface)
OLT-GSFP-C++	OLT SFP module (Class C++ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface)
OLT-GSFP-C+++	OLT SFP module (Class C+++ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface)