

High-density Pizza-box GPON OLT

KDPA3600-D Series

Product Overview

KDPA 3600-D Series 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-D Series

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-D Series supports routing functions such as RIP, OSPF and BGP.

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



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

System capacity: GP3600-D Series supports 4/8 GPON ports.

Uplink interface: GP3600-D Series is equipped with 4 GE RJ45 ports and 4 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

KDPA3600-04D

Access-level Pizza-box GPON OLT



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

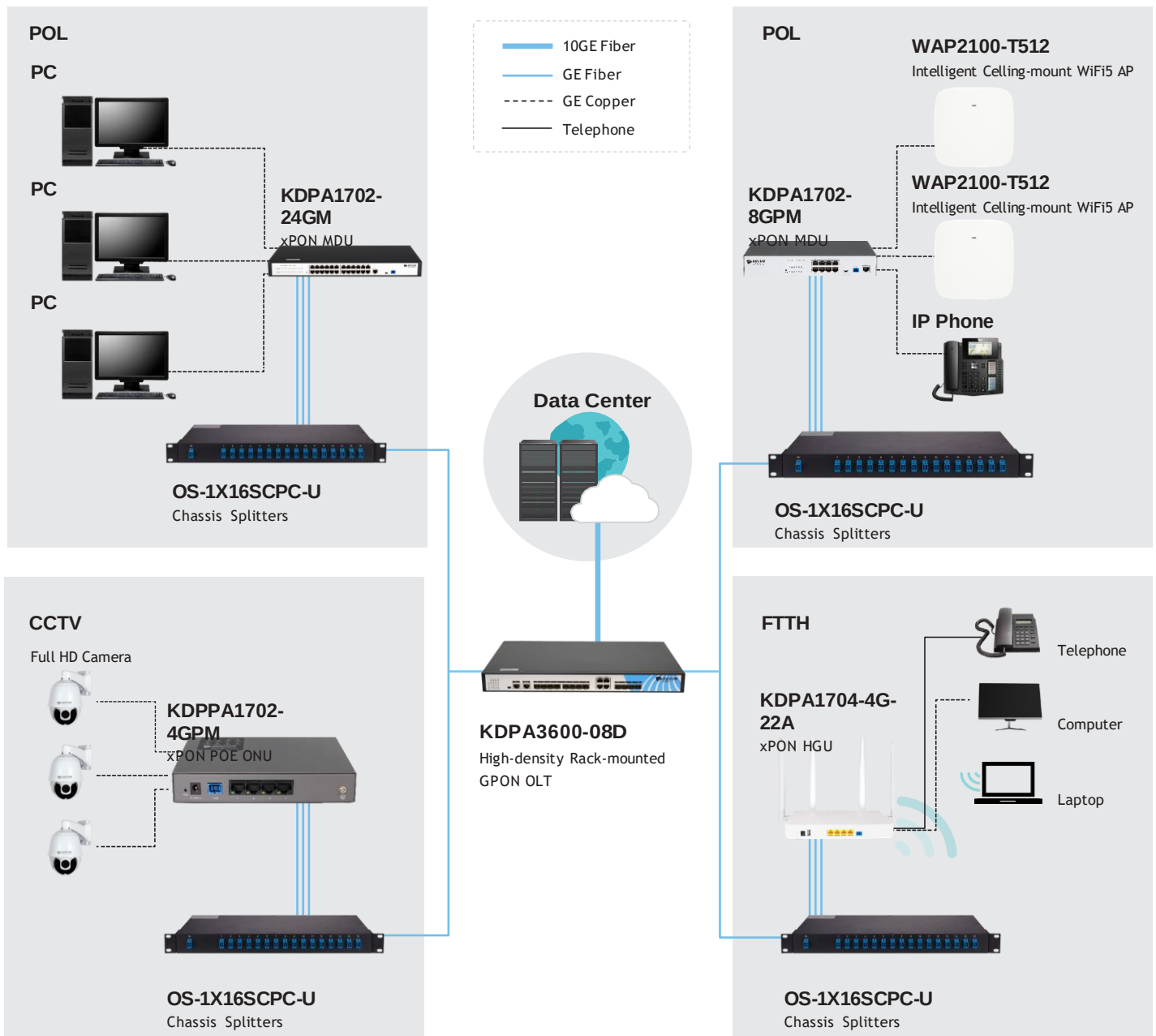
KDPA3600-08D

High-density Pizza-box GPON OLT



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

Application Diagram



KDPA 3600-D Series

System Performance

Item	KDPA3600-04D	KDPA3600-08D
Service interface		
PON ports	4	8
GE uplink	4-Port Gigabit RJ45	4-Port Gigabit RJ45
10GE uplink	4-Port 10G/GE SFP+	4-Port 10G/GE SFP+
Supported GPON SFP module	Class B+, C+, C++, C+++	Class B+, C+, C++, C+++
Management interface		
RJ45 console	1	
Mini-USB console	1	
Out-of-Band	1	
System capacity		
DRAM (MB)	512	
Flash (MB)	32	
Backplane (Gbps)	126	
MAC table	64K	
Buffer size (MB)	2	
Jumbo frame (KB)	2	
IPv4 routing table	32K	
IPv6 routing table	8K	
Active VLAN	4,094	
SVI number	400	
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
- BGP

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
- DA1
- 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	KDPA3600-04D	KDPA3600-08D
Power supply		
AC (V)	100-240	100-240
Max. consumption (W)	50	60
Total output BTU (note: 1000 BTU/hr = 293W)	170.65	204.8
Cooling system		
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)	3.8
Package	Dimensions(WxDxH mm)	576 x 448 x 94
	Weight (Kg)	1.8
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)	95,000	
Certification	CE, FCC, ROHS	

Ordering Information

Model	Description
KDPA GP3600-04D	4-Port GPON OLT with 4-Port Gigabit RJ45 + 4-Port 10G SFP+ (single 100-240V power supply, 19-inch rack-mounted installation)
KDPA GP3600-04D-2AC	4-Port GPON OLT with 4-Port Gigabit RJ45 + 4-Port 10G SFP+ (dual 100-240V power supply, 19-inch rack-mounted installation)
KDPA GP3600-08D	8-Port GPON OLT with 4-Port Gigabit RJ45 + 4-Port 10G SFP+ (single 100-240V power supply, 19-inch rack-mounted installation)
KDPA GP3600-08D-2AC	8-Port GPON OLT with 4-Port Gigabit RJ45 + 4-Port 10G SFP+ (dual 100-240V power supply, 19-inch rack-mounted installation)
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