



# 8-port GPON OLT

P1200-08

Compact high performance  
GPON OLT for medium and  
small operator



# Product Overview

TP-Link P1200-08 is a small capacity cassette GPON OLT. It`s designed with high performance GPON technology and fully compatible with ITU-T G.984.x and G.988 standards.

TP-Link P1200-08 provides 8 GPON downlink ports, 8 Gigabit RJ45 uplink ports and 8 Gigabit SFP uplink ports by default. Each GPON port supports 1:128 splitting ratio, and totally 1024 GPON ONT connections are supported by one device. It also provides an expansion slot, user can expand 2 10G SFP+ uplink ports.

TP-Link P1200-08 supports complete L2 functions such as port aggregation, VLAN, QoS, Multicast and ACL. It is designed with redundant power supply, provides carrier-class reliability, can satisfy the long-distance fiber access requirement for Medium and Small operators. P1200-08 can be used with TP-Link PON Element Management System, user can deploy, manage and monitor their network easily.

## Highlights

Compact design provides more flexibility than big chassis for medium and small operators.

Supports 1:128 splitting ratio, 1024 ONTs can be supported by one device;

Dual redundant power supply design provides carrier-class reliability, supports AC, DC or mixed power input.

Complete L2 functions can meet the requirement for different applications.

Supports ITU-T G.984.4/G.988 standard OMCI, can manage the ONTs remotely.

Provides console and dedicate management port for outband managements.

Supports SNMP can be managed by TP-Link PON Element Management System.

# Specifications

Hardware Features	
Service Port	8*PON port (SFP Slot)
Uplink Port	8*10/100/1000Mbps RJ45 ports
	8*1000Mbps SFP ports
	2*10G SFP+ ports (optional)
Management Port	1*Console port
	1*100BASE-TX outband management port
Fan Quantity	4
Redundancy Design	Dual power supply
	Support AC, DC, AC+DC power input
Power Supply	AC: 90V~240V, 50/60Hz
	DC: -36V~-72V
Power consumption	Max. 65W
Weight	4kg
Dimensions	440mm(L)*391mm(W)*44mm(H)
Environment	Operating temperature: 0℃~50℃
	Storage temperature: -40℃~85℃
	Operating Humidity: 5%~90% non-condensing
	Storage Humidity: 5%~90% non-condensing

GPON port attribute	
Splitting Ratio	1:128
Transmission distance	20km
Data rate	Downstream: 2.5Gbps
	Upstream: 1.25Gbps
Wavelength	Tx: 1490nm
	Rx: 1310nm
Interface type	SC/UPC
Fiber type	9/125μm SMF (Single Mode Fiber)
Tx power	Class B+: 1.5dBm~5dBm
	Class C+: 3dBm~7dBm
Rx sensitivity	Class B+: -28dBm
	Class C+: -30dBm
Saturation power	Class B+: -8dBm
	Class C+: -12dBm

# Specifications

Software Features	
PON Features	Compatible with ITU-T G.984.x, G.988 standards
	Standard OMCI management function
	Support 1:128 splitting ratio for each PON port
	Support AES 128 encryption for uplink and downlink data transmission
	DBA algorithm, support 5 DBA types
	Support 128 DBA profiles
	Support 512 ONT line profiles
	Support 512 ONT service profiles
	ONU management (remote configuration, upgrade, monitor)
	ONU authentication
Port	Port configuration
	Speed and duplex mode configuration
	802.3x flow control configuration
	Broadcast/Multicast/Unicast storm control
	Port mirror

MAC Address	MAC address table: 32K
	Aging time configuration
	Support MAC address limits
	Support 10K Static MAC address
	Support 256 black hole MAC address
Spanning Tree	RSTP
LACP	Support 802.1ad link aggregation
	Maximum 16 trunk groups
	Maximum 16 ports per group
	Load balance based on S-MAC, D-MAC, S-IP, D-IP
DHCP	DHCP Client
	DHCP snooping
VLAN	VLAN ID: 1~4094
	2000 active VLANs
	Support 802.1q VLAN
	The ports support Access, Trunk and Hybrid mode
	Support PVID configuration
	Support QinQ
	Support VLAN translation

# Specifications

Software Features	
Multicast	512 IGMP groups
	IGMP v1/v2 snooping
	IGMP fast leave
	IGMP snooping querier
QoS	Support 802.1p QoS
	4 priority queues
	Priority schedule mode: SP, WRR, SP+WRR
ACL	Support 4000 ACL rules
	Support basic ACL, advance ACL and link ACL
	Basic ACL: source IP
	Advance ACL: source IP, destination IP, source port, destination port, DSCP and IP message type
	Link ACL: source MAC, destination MAC, VLAN ID, Ethernet type
	Support 802.1p priority, VLAN ID, TOS, DSCP remark.

Management & maintenance	Support CLI management
	Support EMS management based on SNMP
	Console port, Management port
	Inbound and outbound management
	Operation Status monitor
	3 levels account management
	Configuration backup and load
	Firmware upgrade through FTP
	Log management
	Real-time statistic
OLT and ONT optical module diagnostics	

# Specifications

Ordering Information	
Part Number	Description
P1200-08	8-port GPON OLT, with dual AC input power supply
PRP12-AC	Redundant power supply module for P1200-08, AC input
PRP12-DC	Redundant power supply module for P1200-08, DC input
PEX12-X2	2*10G SFP+ uplink module for P1200-08
PLT12-B+	GPON OLT SFP optical module, Class B+
PLT12-C+	GPON OLT SFP optical module, Class C+

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