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OP-100P4

Layer3 4 Ports EPON OLT

Introduction:

Optronix OP-100P4 series EPON OLT products are 1U height 19 inch rack mount products. The features of the OLT are small, convenient, flexible, easy to deploy and high performance. It is appropriate to be deployed in compact room environment. The OLT's can be used for "Triple-Play", VPN, IP Camera, Enterprise LAN and Internet service provider applications.

OP-100P4 provides 4GE(copper) and 4*SFP/SFP+ slots independent interface for uplink, and 4*EPON OLT ports for downlink. It can support overall 256 ONU's with 64 ONU's per PON port.

Management Ports

- 1*10/100BASE-T Out-band Port,
- 1*CONSOLE Port

PON Port Specification

- Transmission Distance: 20km
- EPON Port Speed Symmetrical 1.25Gbps
- Wavelength: TX-1490nm, RX-1310nm
- Connector: SC/UPC
- Fiber Type: 9/125μm SMF

Management Mode

- SNMP/Telnet/CLI/WEB/SSH v2

Management Function

- Fan Group Control;
- Port Status Monitoring and Configuration management;

- Online ONU Configuration and management;
- user management, Alarm Management

Layer 2 Features

- 16k MAC Address
- Support Port VLAN
- Support 4096 VLANs
- Support VLAN tag/Un-tag, VLAN Transparent Transmission, QinQ
- Support IEEE802.3D Trunk
- Support RSTP, MSTP
- QoS based on Port, VID, TOS and MAC Address
- IEEE802.x Flow Control
- Port Stability Statistic and Monitoring;
- Support P2P Function

Multicast

- IGMP Snooping
- 256 IP Multicast Groups

DHCP

- DHCP Server
- DHCP Relay
- DHCP Snooping

Layer 3 Features

- ARP Proxy
- Static Route
- 1024 Hardware Host Routes
- 512 Hardware Subnet Routes
- Support RIPv1/v2, OSPFv2/v3
- Support PPPoE+

Technical Specifications

Item		OP-100P4
Chassis	Rack	1U 19Inch Standard Box
Uplink Port	Qty	8
	RJ45	4
	SFP/SFP +	4
EPON Port	Qty	4
	Physical Interface	SFP Slots
	Max splitting ratio	1.64
	Support PON Module level	Px20, Px20+, Px20++, Px20+++
Backplane Bandwidth (Gbps)		128
Port Forwarding rate (Mpps)		71.424
Dimension (LxWxH)		442mm*200mm*43.6mm
Weight		3.2kg
Power Supply		AC 100~240 V, 50/60 Hz
DC Power Supply		DC: -48V
Power Consumption		30W
Operating Environment	Working Temperature	-20~+60°C
	Storage Temperature	-40~+70°C
	Relative Humidity	5~95% (non-condensing)

Security Management

- Support IEEE802.1x, Radius, Tacacs+
- Support DHCP Snooping, DHCP Opiton82, IP Source Guard
- Support HTTPs, SSHv2

PON Port Specification

- Support IPv6 Neighbor Discovery, SLAAC Snooping
- Support DHCPv6 Server, DHCPv6 Relay, DHCPv6 Snooping
- Support IPv6 Static Route
- Support IPv6 Dynamic Route Protocol: RIPng, OSPF6
- Support MLD v1/v2
- Support IPv6 ACL
- Support IPv6 SNMP, Telnet, Https, SSH Management

Layer 2 Features

- Support Port-based rate Limitation and bandwidth Control
- In compliant with IEEE802.3ah Standard
- Support data encryption, Multi-cast, Port VLAN, Separation, RSTP etc
- Support Dynamic Bandwidth Allocation (DBA)
- Support ONU Auto-discovery/link detection/remote Upgrade of Software
- Support VLAN division and User Separation to avoid Broadcast Storm
- Support Various LLID Configuration and Single LLID Configuration
- Different User and Different Service Could Provide Different QoS by Means of Different LLID Channels
- Support Power-Off Alarm Function, Easy for Link Problem Detection
- Support Broadcasting Storm Resistance Function
- Support Port Isolation Between Different Ports
- Support ACL to Configure Data Packet Filter Flexibly
- Specialized Design for System Breakdown Prevention to Maintain Stable System
- Support Dynamic Distance Calculation on EMS Online

Ordering Information:

Product Name	Product Description	Power Configuration
OP-100P4	4*EPON, 4*RJ45+4*SFP/(SFP+)	1*AC Power + 1*BBU Interface