ZISA OP3600-X5 96Ports GPON System OLT

Product Overview

OP3600-X5 chassis is middle density universal OLT, it adopts the advanced technology and ASIC chip. The single OLT card in OP3600-X5 can support up to 16 PON ports, single chassis can support up to 96 PON ports and can manage up to 12288 remote ONUs. Besides the 6 universal PON slots, it supports multiple 1 plus 1 redundancy pair slots including two Switching & Controller slots, two Uplink slots and two Power slots, which enhances the system reliability and stability.

OP3600-X5 is fully compliant with related ITU-T and IEEE standards, can interwork with different types of ONU from different vendors. It is based on the mature and robust ZISA OS software platform from ZISA Corp., system has high reliability and stability. OP3600-X5 supports network management via CLI and SNMP, with good user interface, easy to operate. It is an OLT product suitable for large capacity GPON network deployment.

Product Specification:

Parameter	Description
Exchange Capacity	➢ 360Gbps
Exchange Control Board	➢ 2 slots, each board integrated switch architecture and system control platform, support 1+1 backup
Service Port	➢ 6 blocks of GPON service boards ➢ Each board has a maximum of 16 GPON ports ➢ The entire system supports 96 GPON ports

Uplink Port	➤ 2 uplink boards
	➤ Each uplink board supports four 10GE ports (SFP+)
	➤ Each exchange control board supports four 10GE uplink ports
	➤ The whole system supports 16 10GE uplink ports at most
Power Supply Board	➤ DC power supply supporting 1+1 backup
	➤ Voltage input range for each power supply board: -38V to -72V
Power Consumption	➤ Maximum: 600W
Chassis Dimension (W*D*H) (mm)	➤ Chassis: 440*248*264
	➤ Chassis + bracket: 482*248*264
Environmental Parameters	➤ Operating temperature: -5°C ~ 45°C
	➤ Storage temperature: -40°C ~ 70°C
	➤ Relative humidity: 10% ~ 90%(no condensation)

Product Features:

Features	Description
PON Features	➤ Compliance with ITU-T G.988 and operator related standards
	➤ each PON port supports up to 128 GPON ONU
	➤ Support of 5 types bandwidth profile
	➤ Support of multiple ONU authentication mechanisms, such as LOID, SN, Password, and combined authentication.
	➤ Support of ONU information report
	➤ Support of ONU automatic registry
	➤ Support of DBA (Dynamic Bandwidth Allocation)
	➤ Support of ranging and logical distance configuration
	➤ Support of upstream and downstream FEC enabling/disabling
	➤ Support of AES encryption
	➤ Support of ONU service batch upgrade
	➤ Support of PON port-isolate
	➤ Support of ONU management IP configuration
	➤ Support TR069
	➤ Support of ONU UNI port MAC address filtering
	➤ Support PON port and ONU RSSI related attributes alarm
	➤ Support ONU capability set query
	➤ Support SFU UNI port status query
	➤ Support ONU remote batch upgrade

System functions		➢ Support fan speed automatic control and manual control
		➢ Support system-level temperature alarm threshold configuration
		➢ Support SXC board standby and backup 1 +1 protection
		➢ Support 1+1 protection for power board
		➢ Support service board power-saving features
Ethernet characteristics	VLAN	➢ Support 4K VLAN attributes
		➢ Support QinQ and flexible QinQ
		➢ Support VLAN additions, deletions, conversions, and transmissions
	generation tree	➢ Support STP\RSTP
		➢ Loop detection supporting remote ONU
	Port management	➢ Support bidirectional bandwidth control
		➢ Support static and LACP aggregation groups
		➢ Support port mirrors and service mirrors
		➢ Support port SFP information reading
		➢ Support port RSSI configuration and alarm
	Multicast	➢ Support IGMPv1 / v2 / v3
		➢ Support IGMP Snooping / Proxy
		➢ Support MLD Snooping / Proxy
		➢ Support static multicast configuration
		➢ Support for inter-VLAN multicast
	PPPoE	➢ Support PPPoE +
QoS function	QoS	➢ Support service flow rate limit of both upstream and downstream
		➢ Support downlink simple scheduling and hierarchical scheduling
		➢ Support QOS into the queue mapping up and down
		➢ Support queue priority scheduling (SP \ WRR \ SP + WRR) function
L3 functions	DHCP	➢ Support DHCP-Relay
		➢ Support DHCP-Snooping
		➢ Support DHCP-Option82
	VLANIF	➢ Support the configuration of L3 interface address
	ARP	➢ Support Arp-agent function
	Route management	➢ Support static routing
		➢ Support for default routing
		➢ Support OSPFv2
Security features	User safety	➢ Support port and ONU isolation function
		➢ Support MAC filtering
	Equipment safety	➢ Support anti-DOS attacks
		➢ Support user classification to prevent unauthorized users from illegal invasion

	cyber security	➢ Support port broadcast / multicast packet suppression ➢ Supports flow classification and flow definition based on IP packet header information such as source / destination MAC address, VLAN, 802.1p, ToS, DiffServ, source / destination IP address (IPv4 / IPv6), TCP / UDP port number, protocol type ➢ Support for L2-L7 ACL flow classification at packet depth of 80 bytes ➢ Support business flow strategy, including mirroring, redirection, statistics, filtering
Network management		➢ Support the management based on serial port (serial) ➢ Support the management based on the command line interface (CLI) ➢ Support the network management of NMS based on SNMP

Purchase Information:

Product name	Product description
OP3608	8*PON, 8*GE SFP or 2*10GE SFP+, support double AC/DC power supply
OP3616	16*PON, 8*GE SFP or 2*10GE SFP+, support double AC/DC power supply
OP3600-X5	96*PON, 16* 10GE ports (SFP+),360Gbps,DC -38V to -72V power supply
OP3600-X10	224*PON, 16* 10GE ports (SFP+),720Gbps,DC -40.5V to -72V power supply
360PWRAC	power module for360PWRAC
360PWRDC	power modulefor 360PWRDC

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