FD1604S-B0

4PON PORTS XPON OLT

Dedicated Chip

Low Power Consumption

Software Customization

Layer3 Switching

Brief Views

4pon port XPON OLT completely meet relative standard of ITU G.984.x and IEEE 802.3x and FSAN, which is 1U rack-mounted device with 1 USB interface, 4 uplink GE ports, 4 uplink SFP ports, 2*10GE uplink ports and 4 XPON ports. When XPON mode is GPON,each GPON port supports the splitting ratio of 1:128;When XPON mode is EPON,each EPON port supports the splitting ratio of 1:64. GPON system support 512 terminals accessing in for the most,EPON system support 256 terminals accessing in for the most.

This product meets the requirements in device performance and size of compact server room as the product has high performance and compact size, which convenient and flexible to use, and is easy to deploy as well. Moreover, the product meets the requirements of promoting network performance, improving reliability and reducing power consumption in the perspective of access network and enterprise network and is applicable to three-in-one broadcast television network, FTTP (Fiber to the premise), video monitoring network, enterprise LAN (Local Area Network), internet of things and other network applications with a very high price/performance ratio.

Functional Feature

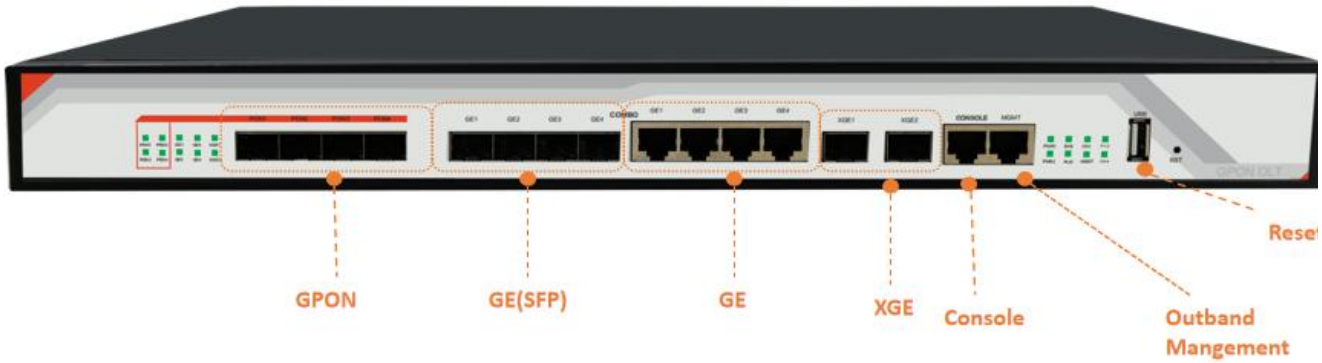
- Meet ITU-T G.984/G.988 standard and IEEE 802.3x standards of Chinese Communication Industry
- Support OMCI or OAM Protocol
- 1U height 4PON OLT product in compact design of Pizza-Box
- Complete PON protection switching function
- Layer 2 Switching Function

  OLT equips with very powerful layer 2 Full Wire Speed Switching and completely supports layer 2 protocol. OLT supports varieties of layer 2 functions like TRUNK, VLAN, LACP, rate limit, port isolate, queue technology, flow control technology, ACL and so on, which provides technical guarantee for the development of multi-service integrated.
- QOS Guarantee

  XPON Products maintains fully-improved DBA with excellent Qos service capabilities. DBA meets different Qos requirements from different service flow in latency, jitter, packet loss rate.
- Easy-to-Use Management System

  Support management method of CLI, WEB, SNMP, TELNET, SSH and meet OMCI or OAM standard, through OMCI or OAM channel protocol service management can be realized, including ONT function parameter set, T-CONT business lines and amount, Qos parameters, configuration information request, performance statistics, auto-reporting of running events in system, configuration for ONT from OLT, fault diagnosis and management of performance and safety.

Product Interface



Product Specification

ITEM		4pon port XPON OLT	
Management Rack	Type	1U 19-inch standard box	
Uplink Port	COMBO port	4 10/100/1000M auto-negotiation Ethernet ports	
		4 SFP interfaces	
	10-Gigabit	2 SFP+ interfaces	
PON Port	Quantity	4	
	Physical interface	SFP slot	
	Interface type	GPON: ITU-TG.984.2 Class B+/Class C+ EOPN: IEEE802.3ah	
	Max splitting ratio	GPON: 1:128 EPON: 1:64	
Management Port		1 100/1000BASE-Tx out-band Ethernet port 1 CONSOLE local management port	
USB Port		1 USB interface (It's used to backup configuration, upgrade program, and record log information)	
PON Port attribute	Transmission distance	20KM	
	Port rate	GPON: Downstream: 2.5Gbps Upstream: 1.25Gbps EPON: Symmetrical 1.25Gbps	
	Wavelength	Forwarding: 1490nm Receiving: 1310nm	
	Interface type	SC/UPC	
	Fiber type	9/125μm SMF (Single Mode Fiber)	
	Light transmission power	Class B+ +1.5 ~ +5dBm	Class B+ +1.5 ~ +5dBm Class C+ +3 ~ +7dBm
	Receiving sensitivity	GPON	Class B+ : -28dBm Class C+ : -30dBm
		EPON	-27dBm
	Saturation power	GPON	Class B+ -8dBm Class C+ -12dBm
		EPON	-6dBm
Network management method		Support CLI、SNMP、TELNET、SSH、WEB	
Business capabilities		➢ Support device log, device upgrade, device management, condition monitoring, configuration management, and user management. ➢ Layer 2 switching configuration management: Like port management, VLAN, RSTP, IGMP, ACL, QOS and so on. ➢ PON function configuration management: Like OLT authentication, DBA template, service template, line template and so on.	

		➢ Layer 3 function: support static routing, dhcp-relay and vlanif configuration
Backplane Bandwidth		63G
Size		440mm(L)*240mm(W)*44mm(H)
Weight		4kg
Power supply	220VAC	AC: 100V ~ 240V，47/63Hz
	-48DC	DC:-40V ~ -72V
	BBU(Backup Battery Unit)	DC: 11V ~ 14V Function: When the regular power supply is cut off, it can be switched to the backup power supply, and when the regular power supply resumes, it will switch back to the regular power supply and charge the backup power supply.
Maximum power		45W
Working environment	Working temperature	-15 ~ 50℃
	Storage temperature	-40 ~ 85℃
	Relative humidity	5 ~ 90% (Non-condensing)

Typical Application