FD1801S-C1

1 PON PORT XGS-PON&GPON OLT

LED LED Screen	**1:128**	**Mini Size**
Wi-Fi Management	**Dedicated Chip**	**Single Port**

Brief Views

XGS-PON&GPON OLT FD1801S-C1 completely meets relative standard of ITU-T G.9807.1. It is 1U rack-mounted device with 2 uplink GE ports, 1 10GE uplink ports and 1 XGS-PON&GPON(Combo PON) ports. The XGS-PON&GPON port supports the splitting ratio of 1:128. The XGS-PON&GPON system supports up to 128 terminal connections.
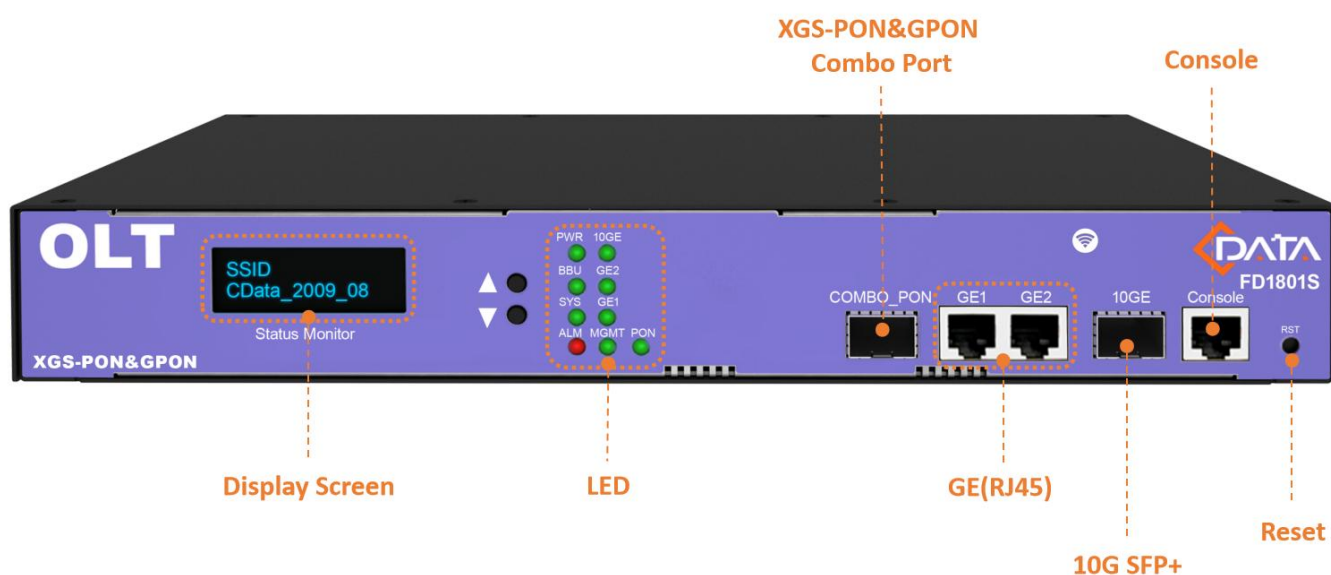
This product meets the requirements in device performance and size of compact server room as the product has high performance and compact size, which is convenient and flexible to use, and is easy to deploy as well. Moreover, the product meets the requirements of promoting network performance, improving 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.9807.1 standard and standards of Chinese Communication Industry
- Support OMCI Protocol
- 1U height 1PON XGS-PON&GPON OLT product in compact design of Pizza-Box
- Fan speed adjust automatically
- BBU optional
- Layer 2 Switching Function
- OLT equips with very powerful layer 2 Full Wire Speed Switching and completely supports layer 2 protocol. The 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
- XGS-PON&GPON 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 standard, through OMCI channel protocol service management can be realized, including ONT function parameter set, T-CONT service 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 and LED

Product Specification

Mechanics

Dimensions	312.8mm(L)*197mm(W)*44mm(H)
Weight	1.95Kg

Hardware

Uplink Port	GE port	2* 10/100/1000M auto-negotiation Ethernet ports
	10-Gigabit port	1* SFP+ interfaces
PON Port	Quantity	1
	Physical Interface	SFP slot
	Max Splitting Ratio	1:128
Management Port		1* CONSOLE local management port
PON Port Attribute	Transmission Distance	20KM
	Port Rate	XGS-PON: Downstream: 10Gbps Upstream: 10Gbps GPON: Downstream: 2.5Gbps Upstream: 1.25Gbps
	Wavelength	XGS-PON: Forwarding: 1577nm Receiving: 1270nm GPON: Forwarding: 1490nm Receiving: 1310nm
	Interface Type	SC/UPC
	Fiber type	9/125μm SMF (Single Mode Fiber)
	Light Transmission Power	XGS-PON&GPON COMBO 5~8dBm (9.953G) 3~7dBm (2.488G)
	Receiving Sensitivity	XGS-PON&GPON COMBO ≥-29dBm (9.953G) ≥-30.5dBm (2.488G) ≥-30dBm (1.244G)
	Saturation Power	XGS-PON&GPON COMBO ≤-8dBm (9.953G) ≤-10dBm (2.488G) ≤-12dBm (1.244G)
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		44G

Power supply

AC	100V ~ 240V, 47 ~ 63Hz

DC	External adapter mode 12V/2.5A
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	<14W

Environment

Working Temperature	-15 ~ 50℃
Storage Temperature	-40 ~ 85℃
Ambient Humidity	5 ~ 90% (Non-condensing)