

FD1700S



Dedicated Chip



Modular



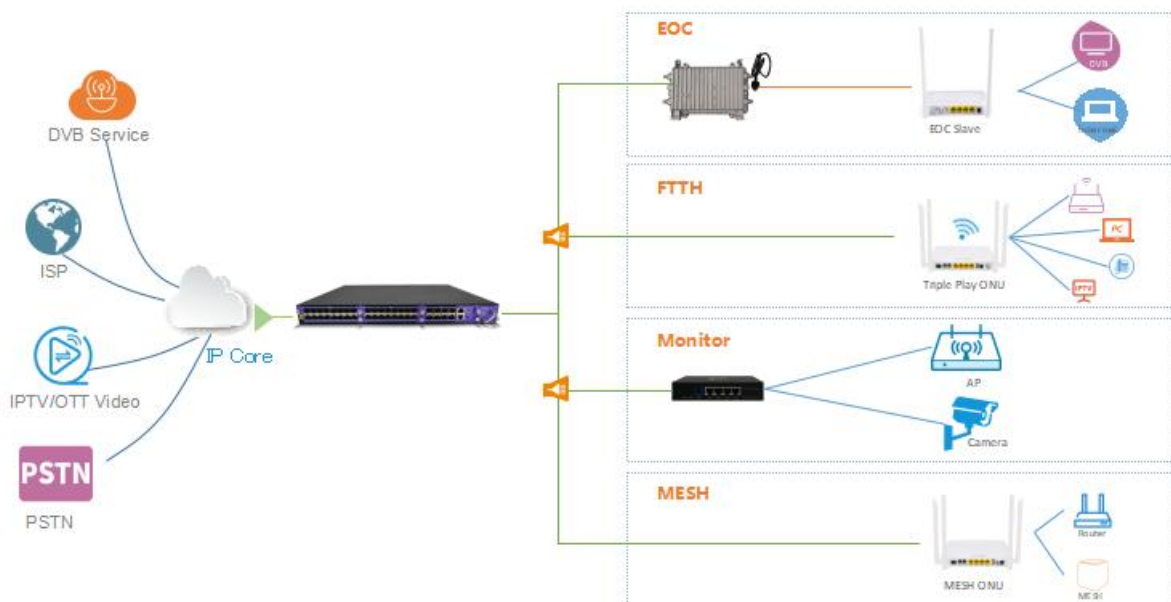
Back Battery Unit



Layer3 Switching

Brief Views

The GPON OLT FD1700S fully complies with the relevant standards of ITU G.984.x and FSAN. It's a 1RU device featuring an uplink SFP port with options for either 4*1G/10G and 4*10G/25G. The PON ports come in configurations of 4/8/16 ports. Each GPON port supports a splitting ratio of 1:128. Consequently, the GPON system can accommodate up to 4096 terminal connections, depending on the number of PON ports chosen.



Functional Feature

GPON Function

- ITU-T G.984/G.988 standard
- Support OMCI protocol
- T-CONT DBA
- GEMPORT traffic
- ONU auto discover
- Ranging function
- Downstream data encrypted

Layer 2 Switching Function

- Access/Trunk/Hybrid L2 access mode
- Support 64K MAC address
- Support 4094 VLANs
- VLAN filter function,VLAN transform
- Smart QinQ
- L2 port mirror
- Support 1024 static MAC address
- MAC address learning/aging
- MAC address limitation
- Static/Dynamic LACP
- ACL
- RSTP

Layer 3 Switching Function

- Static routing
- DHCP server/DHCP relay/DHCP snooping
- ARP proxy

Multicast Function

- IGMP snooping
- IGMP V1/V2/V3
- Multicast VLAN translation
- Multicast QOS
- IGMP protocol statistics

QOS Guarantee

- Traffic control function
- Congestion avoidance function
- Queue scheduling function
- COS Priority function
- ACL function

Reliability Function

- 1+1 power modules
- BBU optional
- Fan speed automatically adjusts based on temperature
- Enables manual adjustment for primary and secondary power sources

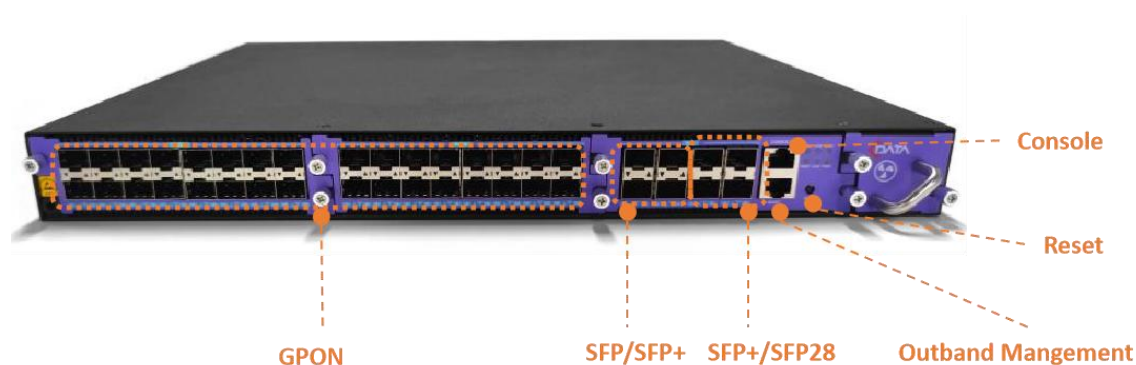
Management Function

- CLI/WEB/Telnet/SSH
- Performance Management
- Alarm Management
- Security Management

Maintenance Function

- Device log
- Device upgrade
- Fault diagnose function
- Condition monitoring function

Product Interface



Product Specification

Mechanics

Management Rack	1U 19-inch standard box
Dimensions	440*375*44mm
Weight	About 6kg

Hardware

Uplink Port	4*1G(SFP)/10G SFP+ 4*10G(SFP+)/25G(SFP28)				
PON Port	Quantity	8*GPON/16*GPON/24*GPON/32*GPON/ 8*XG(S)PON			
	Physical interface	SFP slot			
	Interface type	GPON: ITU-TG.984.2 Class B+/Class C+			
	Max splitting ratio	GPON: 1:128			
Management Port		1 100/1000BASE-Tx out-band Ethernet port			
		1 CONSOLE local management port			
PON Port attribute	Transmission distance	20KM			
	Port rate	GPON: Downstream: 2.5Gbps Upstream: 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 C+:+3 ~ +7dBm	Class C++++:+7.5dBm~+10.5dBm	Class C++: +4.5dBm~+10dBm
	Receiving sensitivity	Class B+: -28dBm	Class C+: -30dBm	Class C++++: -30dBm	Class C++: -31dBm
	Saturation power	Class B+: -8dBm	Class C+: -12dBm	Class C++++: -10dBm	Class C++: -10dBm
Backplane Bandwidth		400G			

Power Supply

AC	100V ~ 240V, 47~63Hz
DC	-40V ~ -72V

Environment

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

Ordering information

FD1700C: Chassis+Power Supply+Fan
FD1700S: Chassis+Power Supply+Fan+Main control card

FD1708S:	FD1700S+1*8 port GPON Service card
FD1716S:	FD1700S+1*16 port GPON Service card
FD1724S:	FD1700S+1*16 port GPON Service card+1*8 port GPON Service card
FD1732S:	FD1700S+2*16 port GPON Service card
FD1708SX:	FD1700S+1*8 port XGS-PON Service card
FD1716SX:	FD1700S+2*8 port XGS-PON Service card
FD1716GX:	FD1700S+1*8 port GPON Service card+1*8 port XGS-PON Service card
FD1724GX:	FD1700S+1*16 port GPON Service card+1*8 port XGS-PON Service card

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