

# FD1700S



Dedicated Chip



Modular



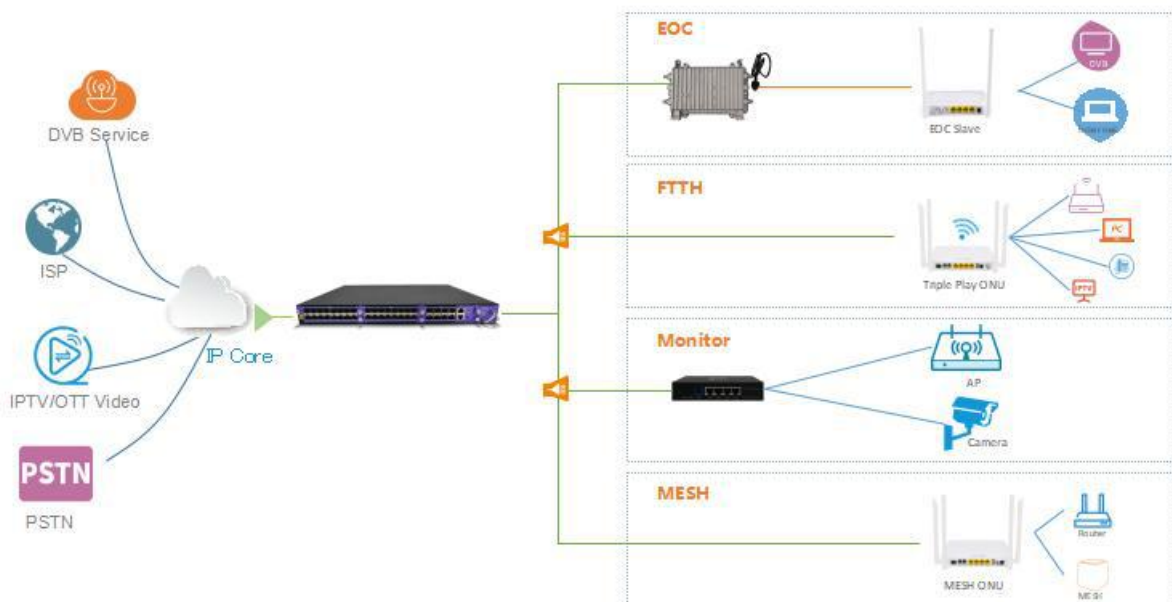
Back Battery Unit



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

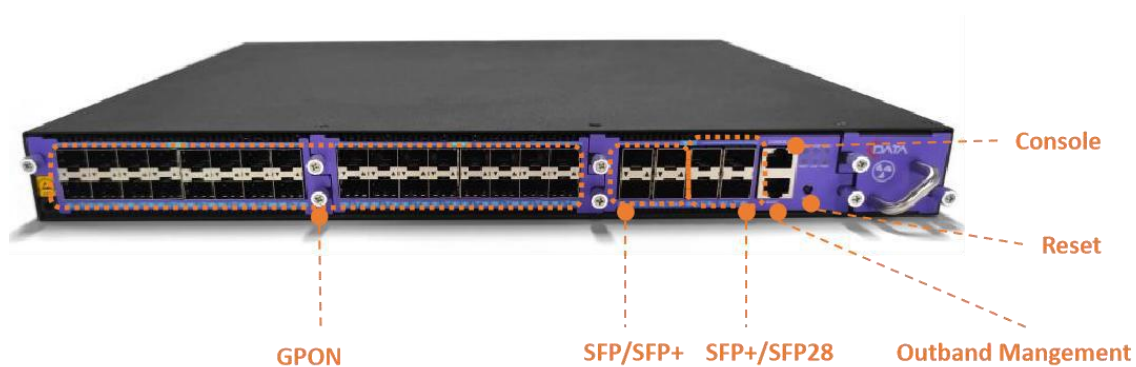
## Management Function

- 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	4*GPON/8*GPON/16*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
	Receiving sensitivity	Class B+: -28dBm Class C+: -30dBm
	Saturation power	Class B+: -8dBm Class C+: -12dBm
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)

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