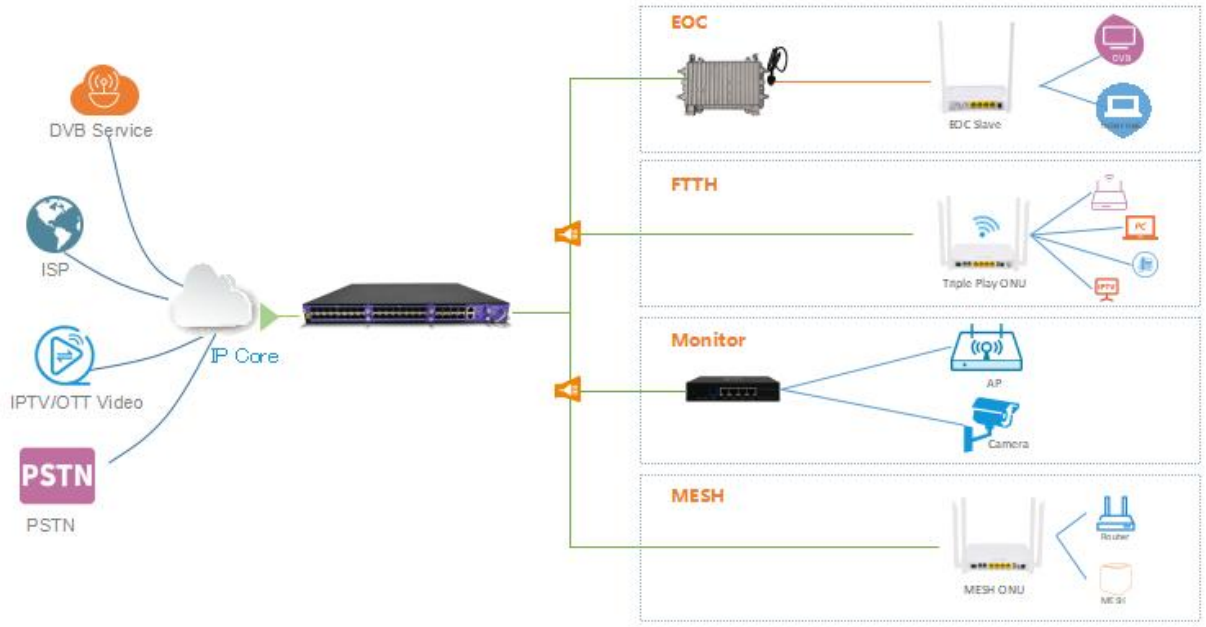
FD1700S(8081T/7161T/7081T/7041T board)

Dedicated Chip | Modular | Back Battery Unit | Layer3 Switching

Brief Views

The OLT FD1700S（8081T/7161T/7081T/FD7041T board) fully complies with the relevant standards of ITU G.984.x and ITU G.9807.x. It's a 1U device featuring an uplink SFP port with options for either 4*1G/10G and 4*10G/25G. Each GPON port supports a splitting ratio of 1:128,each XGSPON port supports a splitting ratio of 1:256 Consequently,the system can accommodate up to 4096 terminal connections, depending on the number of PON ports chosen.





Functional Feature

PON Function

- 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

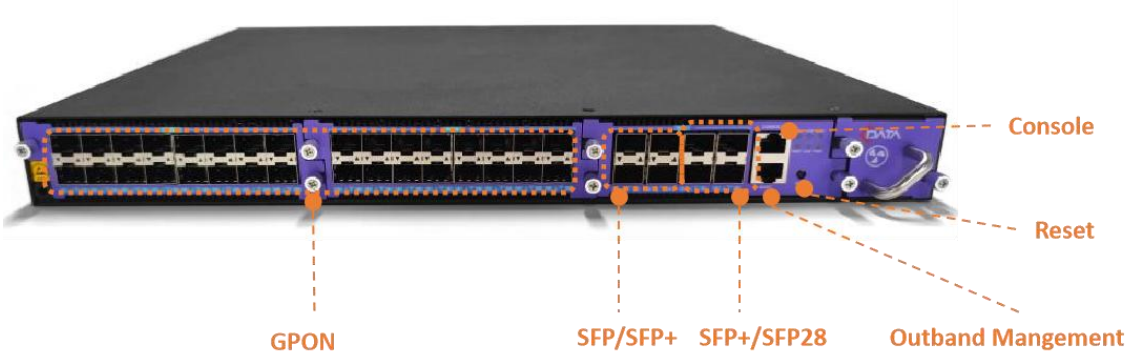
Management Function

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

Maintenance Function

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

Product Interface



Taking two FD7161T boards as an example

Product Specification

Mechanics	
Management Rack	1U 19-inch standard box
Dimensions	8081T/7161T/7081T/FD7041T board:440*375*44mm
Weight	8081T/7161T/7081T/FD7041T board:About 6kg

Hardware			
Uplink Port	4*1G(SFP)/10G SFP+, 4*10G(SFP+)/25G(SFP28)		
PON Port	Quantity	FD7041T:4*GPON FD7081T:8*GPON FD7161T:16*GPON FD8081T: 8*XG(S)PON Note:1700S has two card slots, choose one card or two cards from these four types	
	Physical interface	SFP slot	
	Interface Protocol	GPON: ITU-TG.984.2 Class B+/Class C+ XPSPON:ITU G.9807.x	
	Max splitting ratio	GPON: 1:128 XGSPON:1:256	
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 XGSPON： Downstream：10G Upstream:10G	
	Wavelength	GPON : Forwarding: 1490nm Receiving: 1310nm XGSPON：Forwarding:1270nm Receiving: 1577nm	
	Interface type	SC/UPC	
	Fiber type	9/125μm SMF (Single Mode Fiber)	
	Transmit	GPON: Class B+: +1.5 ~ +5dBm Class C+: +3 ~ +7dBm Class C++：+4.5dBm~+10dBm Class C++++:+7.5dBm~+10.5dBm	XGSPON&GPON COMBO 5~8dBm (9.953G) 3~7dBm (2.488G)
	Receiving sensitivity	GPON: Class B+: -28dBm Class C+: -30dBm Class C++:-31dBm Class C++++:-30dBm	XGSPON&GPON COMBO ≥-29dBm (9.953G) ≥-30.5dBm (2.488G) ≥-30dBm (1.244G)
	Saturation power	GPON: Class B+: -8dBm Class C+: -12dBm Class C++:-10dBm	XGSPON&GPON COMBO ≤-8dBm (9.953G) ≤-10dBm (2.488G) ≤-12dBm (1.244G)

		Class C++++:-10dBm	

Power Supply	
AC	100V ~ 240V
DC	-40 ~ - 57 V

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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