

FD6700S OLT

6U Chassis GPON & XG(S)-PON & 50GPON OLT



Chassis OLT



**GPON&XG(S)-PON
& 50G PON**



CMS Management



Dual-MCU Board



**Multiple
Business Slots**

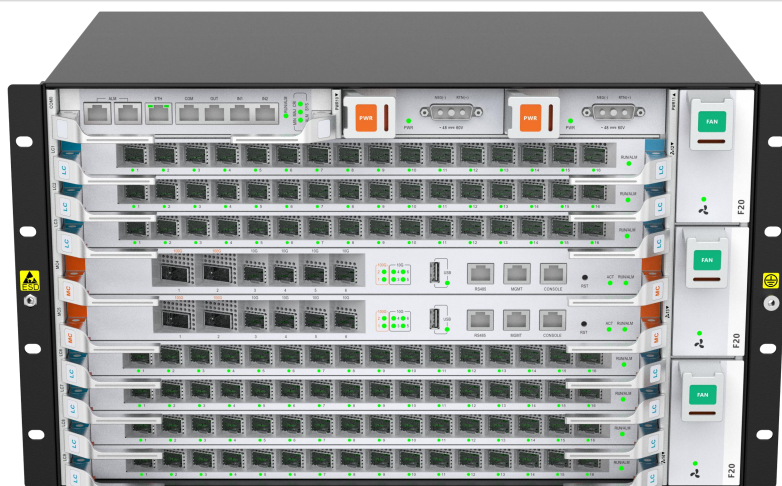


**Redundant
Power Supply**

Brief Views

The FD6700S 6U chassis OLT is a high-end OLT with high density and large bandwidth capacity independently developed by our company. This OLT supports a total of 15 slots: 1 universal card slot, 7 business slots (can support 16 port GPON cards, 16 port XG(S)-PON cards, or 50G PON cards(reserve)), 2 main control slots (each main control card supports 2* 100G/40G ports + 4* 10G/1G ports), 2 power card slots, and 3 fan card slots (2 fans per slot).

The FD6700S OLT, with its modular design, high-density ports, and carrier grade reliability, serves medium to large-scale scenarios that require high access scale, business diversity, and network reliability. Telecom operator access networks with large-scale user coverage (over a thousand households) and multi service coverage (bandwidth, voice, IPTV); Or there may be large enterprises or park networks with dense user density (office buildings, dormitories), multiple types of networks such as monitoring, office, wireless, etc. that require simplified wiring and management needs.



Functional Feature

PON Function

- Meet ITU-T G.9807.1 / G.987 / G.984 / G.988 standard and standards of Chinese Communication Industry
- Support OMCI Protocol, T-CONT DBA, GEMPORT traffic
- PON protection
- ONU auto-discover, policy authentication
- ONU remote management: WAN / VOIP / Wi-Fi / CATV

Layer 2 Switching Function

- VLAN/QinQ/MAC learning/MAC limitation/MAC aging
- STP, RSTP, MSTP, ARP, Loop-detection, MAC flapping detection, ERPS
- LACP, LLDP, PPPoE, Huge frame

Layer 3 Function

- Static routing, RIP, OSPF, Routing Strategy
- IGMP, DHCP, DHCP Server, DHCP relay

IPv6

- IPv6 interface address, linklocal address, IPv6 SLAAC, NDP, Ping6,
- DHCPv6 Relay, DHCPv6 option 16/18/37, DHCPv6 Server, MLD

Security

- AAA/Radius/Tacacs+
- IP Source Guard, ACL, DHCP snooping, PPPoE+

Management Function

- CLI/WEB/Telnet/SSH/CMS(MQTT)/SNMP
- Alarm / Event Management

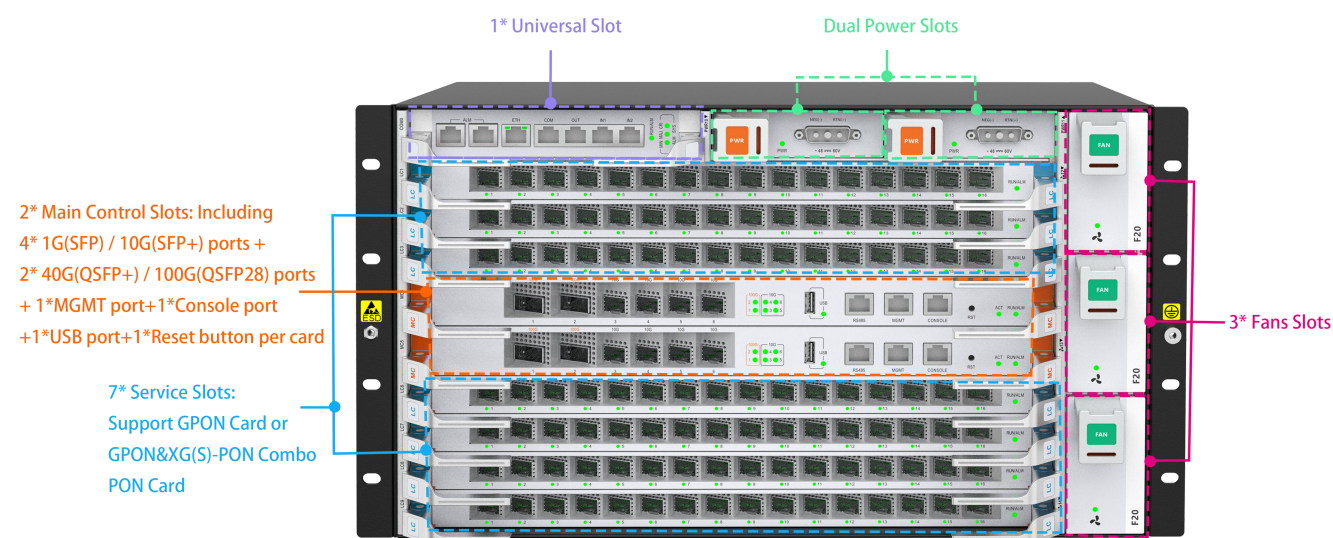
Maintenance Function

- Syslog, Device upgrade
- Fault diagnose function, Port Statistics
- Port mirror, Ping, Traceroute

Others

- 6U height chassis rack design
- Fan speed adjust automatically
- 1+1 Pluggable power module

Product Interface



Product Specification

Whole Mechanics

Chassis	Rack	19 Inch Standard
Slots Type and Quantity		Total 15 slots: 1* Universal Card Slot 7* Service Card Slots: (1) GPON Card (2) GPON&XG(S)-PON Combo PON Card 2* Main Control Card Slots 2* DC (-48V) Power Card Slots 3* Fan Card Slots (2 fans per slot)
Dimensions		482.6mm(L)*286mm(W)*265mm(H) (Including 19 inch standard rack mounting ears)
Weight	Full of cards	
	Chassis only	
Power Voltage		(-48V) DC
Overall Power Consumption		≤ 1702W
Backplane Bandwidth		26.42Tbps

Main Control Card - FD6700-M30

Uplink Port	4* 1G(SFP) / 10G(SFP+) ports 2* 40G(QSFP+) / 100G(QSFP28) ports
Management Port	1* 10/100/1000Mbps BASE-T MGMT port (for out-band management)
Console Port	1* Console port (for debugging)
USB Port	1* USB port (for debugging)
Reset Button	1* Reset button
Power Consumption per Single Card	≤ 183W
Weight	

GPON Service Card - FD6700-G20

PON Port	Quantity	16
	Physical Interface	SFP slot
	Interface Type	GPON: ITU-TG.984.2 Class B+/Class C+/Class C++

	Max Splitting Ratio	1:128		
PON Port Attribute	Transmission Distance	20KM		
	Port Rate	GPON: Downstream: 2.5Gbps Upstream: 1.25Gbps		
	Wavelength	GPON: Forwarding: 1490nm Receiving: 1310nm		
	Connector Type	SC/UPC		
	Fiber type	9/125μm SMF (Single Mode Fiber)		
	Light Transmission Power	Class B+: +1.5 ~+5dBm	Class C+: +3 ~ +7dBm	ClassC++: +4.5 ~ +10dBm
	Receiving Sensitivity	Class B+: -28dBm	Class C+: -30dBm	Class C++: -31dBm
	Saturation Power	Class B+: -8dBm	Class C+: -12dBm	Class C++: -10dBm
Power Consumption per Single Card		≤ 91W		
Weight				

XGS-PON Service Card - FD6700-X20

PON Port	Quantity	16		
	Physical Interface	SFP+ slot		
	Max Splitting Ratio	1:256		
PON Port Attribute	Transmission Distance	20KM		
	Port Rate	XGS-PON: Downstream: 10Gbps Upstream: 10Gbps XG-PON: Downstream: 10Gbps Upstream: 2.5Gbps GPON: Downstream: 2.5Gbps Upstream: 1.25Gbps		
	Wavelength	XGS-PON: Forwarding: 1577nm Receiving: 1270nm XG-PON: Forwarding: 1577nm Receiving: 1270nm GPON: Forwarding: 1490nm Receiving: 1310nm		
	Connector Type	SC/UPC		
	Fiber type	9/125μm SMF (Single Mode Fiber)		
	Light Transmission Power	XG(S)-PON & GPON COMBO 5~8dBm (9.953G) 3~7dBm (2.488G)		
	Receiving Sensitivity	XG(S)-PON & GPON COMBO ≥ -29dBm (9.953G) ≥ -30.5dBm (2.488G) ≥ -30dBm (1.244G)		
	Saturation Power	XG(S)-PON & GPON COMBO ≤ -8dBm (9.953G) ≤ -10dBm (2.488G) ≤ -12dBm (1.244G)		
Power Consumption per Single Card		≤ 148W		
Weight				

Environment

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

Order Information

Hardware		
No.	Model	Specifications
1	FD6700-C10	Chassis Rack
2	FD6700-M30	2* 40G (QSFP+) / 100G (QSFP28) ports + 4*1G (SFP) / 10G (SFP+) ports + 1* 10/100/1000Mbps BASE-T MGMT port + 1* Console port + 1* USB port + 1* Reset button
3	FD6700-G20	16* GPON ports
4	FD6700-X20	16* GPON & XG(S)-PON Combo PON ports
5	FD6700-PD10	A DC (-48V) Power Card Note: Whole Chassis rack needs 2 power cards.
6	FD6700-F20	1* Fans Card (Including 2 fans) Note: Whole Chassis rack needs 3 fans card including 6 fans.
7	FD6700-CK10	1* Universal Card It provides comprehensive interface functions such as alarm input and output, clock input and output (TOD, PPS, network clock), etc.)

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