



OLT-X2

Chassis OLT

Highlights



High reliability
Dual-MCU Board
Type B PON Protection



Versatile Slot Configuration
Multi business slots



Simple Evolution: GPON to XG(S)-PON

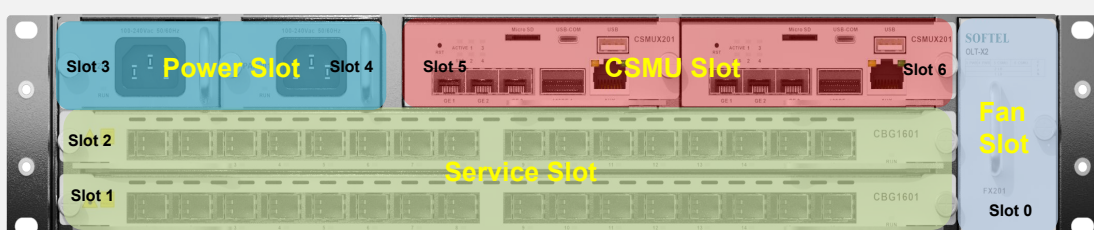
Introduction:

SOFTTEL OLT-X2 are self-developed high-end chassis OLTs, which adopt high-performance chipset and complies with ITU-T international standards. OLT-X2 provide multiple access methods such as GPON, XG-PON, XGS-PON and Combo PON, supports multiple network solutions such as FTTH, FTTB, FTTC, FTTD and FTTM, realizes high-bandwidth and high-speed data transmission, and meets the needs of large-scale deployment.

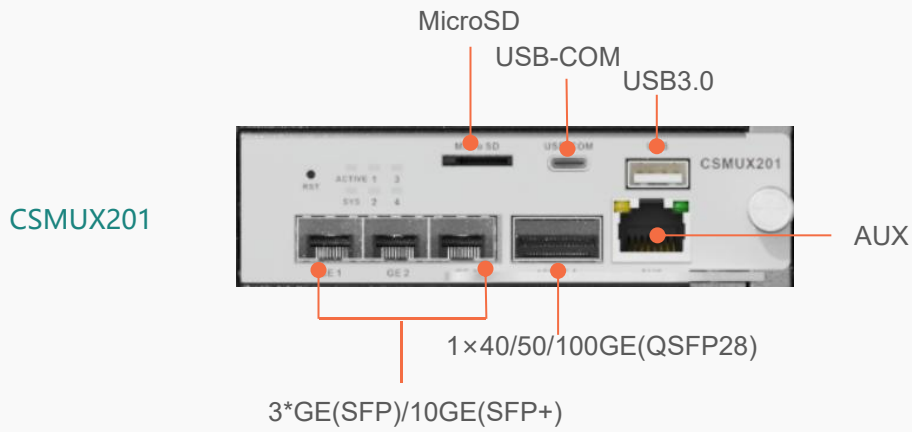
The product has comprehensive management and monitoring functions, simplifies the operation and maintenance process, and provide rich business functions and scalability. It provides operators with excellent user experience and high-quality services, and also meets the challenges faced by operators in the development of "wider, faster and smarter" gigabit ultra-wide networks.

Slots and Cards of O L T - X2:

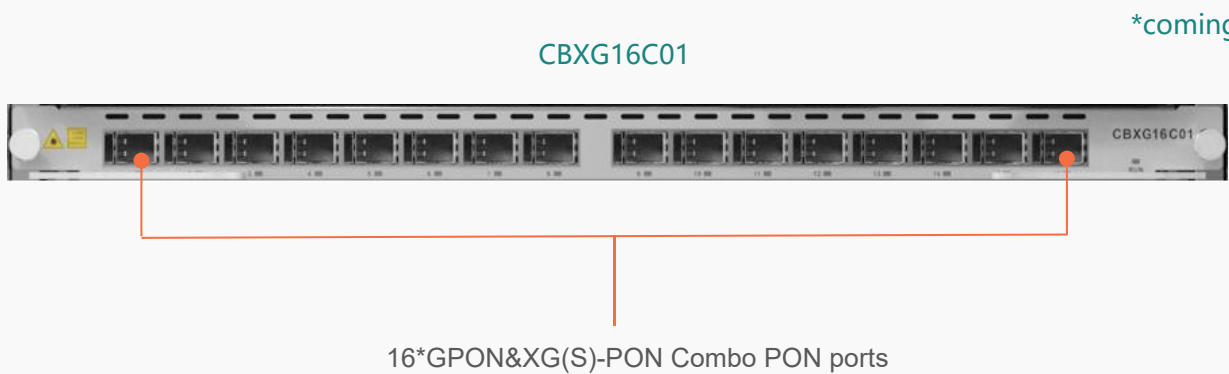
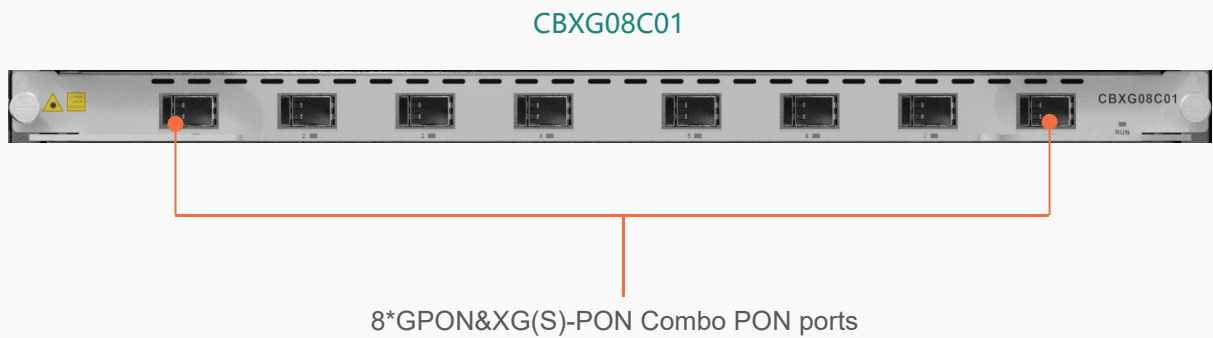
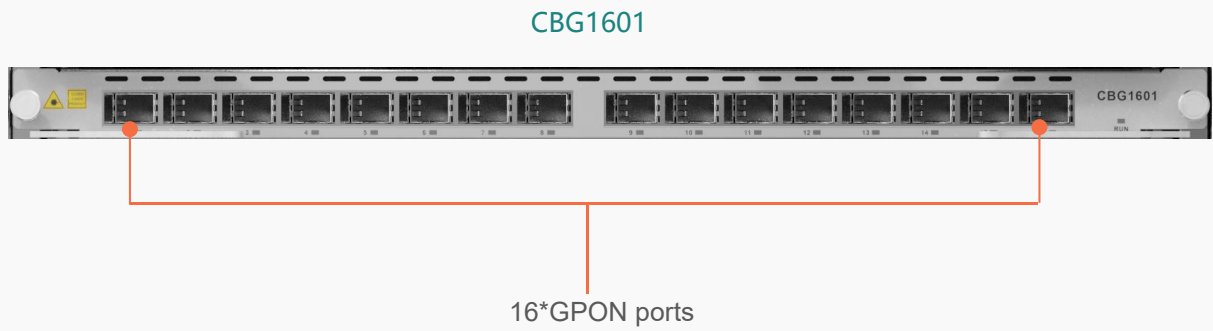
OLT-X2



Interfaces of CSMU Card:



Interfaces of Service Card:



Technical Specifications

Item		OLT-X2
Chassis	Rack	19 Inch Standard
Dimension(L*W*H)		442*299*88.9mm(Without mounting ears)
Weight	Full of cards	10.6kg
	Chassis only	5kg
Working Temperature		-20°C ~+60°C
Working Humidity		5%~95%(non-condensing)
Storage Temperature		-40 ~ +70°C
Storage Humidity		5%~95%(non-condensing)
Power Supply	DC	-48V
	AC	100~240VAC, 50/60Hz
Backplane Bandwidth (Gbps)		1700
CSMU Card: CSMUX201		
Uplink Port	QTY	4
	SFP(GE)/SFP+(10GE)	3
	QSFP28(40GE/50GE/100GE)	1
Management Ports		1*AUX(10/100/1000BASE-T out-band port), 1*MicroSD port, 1*USB-COM, 1*USB3.0
Slot position		Slot 5-6
Service Card: CBG1601		
GPON Port	QTY	16
	Physical Interface	SFP Slots
	Connector Type	Class C+++/C++++
PON Port Specification (Class C++++ module)	Transmission Distance	20KM
	PON Port Speed	Upstream: 1.244Gbps, Downstream: 2.488Gbps
	Wavelength	Upstream: 1310nm , Downstream: 1490nm
	Connector	SC/UPC
	TX Power	+9~+13dBm
	Rx Sensitivity	≤ -33dBm
Saturation Optical Power		-8dBm
Slot position		Slot 1-2
Service Card: CBXG08C01		
GPON&XG(S)-PON Combo Port	QTY	8
	Physical Interface	SFP+ Slots
	Connector Type	N2_C+
GPON&XG(S)-PON Combo Port Specification (N2_C+ module)	Transmission Distance	20KM
	XG(S)-PON Port Speed	GPON: Upstream1.244Gbps, Downstream 2.488Gbps XG-PON: Upstream 2.488Gbps, Downstream 9.953Gbps XGS-PON: Upstream 9.953Gbps, Downstream 9.953Gbps
	Wavelength	GPON: Upstream 1310nm , Downstream 1490nm XG(S)-PON: Upstream 1270nm , Downstream 1577nm
	Connector	SC/UPC
	TX Power	GPON: +3dBm ~ +7dBm , XG(S)PON: +4dBm ~ +7dBm
	Rx Sensitivity	XGS-PON: -28dBm , XG-PON: -29.5dBm , GPON: -32dBm
Saturation Optical Power		XGS-PON: -7dBm , XG-PON: -9dBm , GPON: -12dBm
Slot position		Slot 1-2
Service Card: CBXG16C01		
GPON&XG(S)-PON Combo Port	QTY	16
	Physical Interface	SFP+ Slots
	Connector Type	N2_C+
GPON&XG(S)-PON Combo Port Specification (N2_C+ module)	Transmission Distance	20KM
	XG(S)-PON Port Speed	GPON: Upstream1.244Gbps, Downstream 2.488Gbps XG-PON: Upstream 2.488Gbps, Downstream 9.953Gbps XGS-PON: Upstream 9.953Gbps, Downstream 9.953Gbps
	Wavelength	GPON: Upstream 1310nm , Downstream 1490nm XG(S)-PON: Upstream 1270nm , Downstream 1577nm
	Connector	SC/UPC
	TX Power	GPON: +3dBm ~ +7dBm , XG(S)PON: +4dBm ~ +7dBm
	Rx Sensitivity	XGS-PON: -28dBm , XG-PON: -29.5dBm , GPON: -32dBm
Saturation Optical Power		XGS-PON: -7dBm , XG-PON: -9dBm , GPON: -12dBm
Slot position		Slot 1-2

Technical Specifications

Management Function

- Telnet,CLI,WEB,SSH v2
- Fan Group Control
- Port Status monitoring and configuration management
- Online ONT configuration and management
- User management
- Alarm management

PON Function

- T-CONT DBA
- x-GEM traffic
- In compliant with ITU-T G.9807(XGS-PON) , ITU-T G.987(XG-PON) and ITU-T984.x
- Up to 20KM transmission Distance
- Support data encryption, multi-cast, port VLAN, etc
- Support ONT auto-discovery/link detection/remote upgrade of software
- Support VLAN division and user separation to avoid broadcast storm
- Support power-off alarm function, easy for link problem detection
- Support broadcasting storm resistance function
- Support port isolation between different ports

- Support ACL and SNMP to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain stable system
- Support STP,RSTP,MSTP

Layer2 Switch

- 32K Mac address
 - Support 4096 VLANs
 - Support port VLAN
 - Support VLAN translation and QinQ
 - Support storm control based on port
 - Support port isolation
 - Support port rate limitation
 - Support 802.1D and 802.1W
 - Support static LACP,Dynamic LACP
 - QoS based on port, VID, TOS and MAC address
 - Access control list
 - IEEE802.x flowcontrol
 - Port stability statistic and monitoring
- ### Layer 3 Route
- ARP proxy
 - Hardware Host Routes: IPv4 32K, IPv6 16K
 - Hardware Subnet Routes: IPv4 24K, IPv6 12K

- Support Radius,Tacacs+
- Support IP source guard
- Support static route ,dynamic route RIP v1/v2,RIPng and OSPF v2/v3

IPv6

- Support NDP
- Support IPv6 Ping,IPv6 Telnet,IPv6 routing
- Support ACL based on source IPv6 address, destination IPv6 address, L4 port, protocol type, etc

Multicast

- IGMP v1/v2, IGMP snooping/Proxy
- MLD v1 snooping/Proxy

DHCP

- DHCP server,DHCP relay,DHCP snooping
- DHCP option82

Security

- Support power backup
- Support CSM 1+1 redundancy
- Support Type B PON protection
- Support IEEE 802.1x, AAA, Radius and Tacas+

Ordering Information:

Product Name	Product Description	Specific
OLT-X2 chassis	Chassis of OLT	/
CSMUX201	CSMU Card	1*40/50/100GE(QSFP28)+3*GE(SFP)/10GE(SFP+) +1*AUX+1*MicroSD+1*USB-COM+1*USB3.0
CBG1601	Service Card	16*GPON ports
CBXG08C01	Service Card	8*GPON&XG(S)-PON Combo PON ports
CBXG16C01	Service Card	16*GPON&XG(S)-PON Combo PON ports
PDX201	Power Supply Card	DC -48V
PAX201	Power Supply Card	AC 220V, 50/60Hz
FX201	Fan tray	/