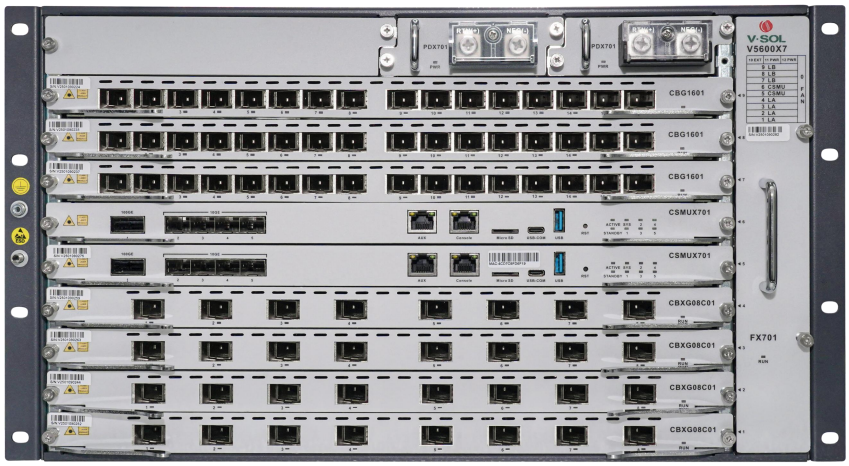


# V5600X7

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

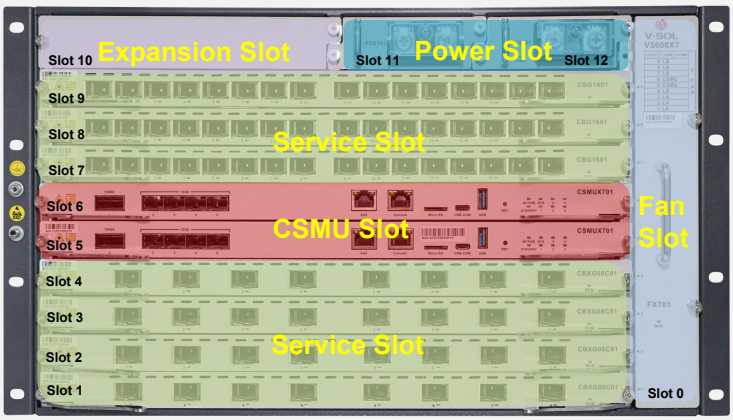
## Introduction:

VSOL V5600X7 are self-developed high-end chassis OLTs,which adopt high-performance chipset and complies with ITU-T international standards.V5600X7 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.

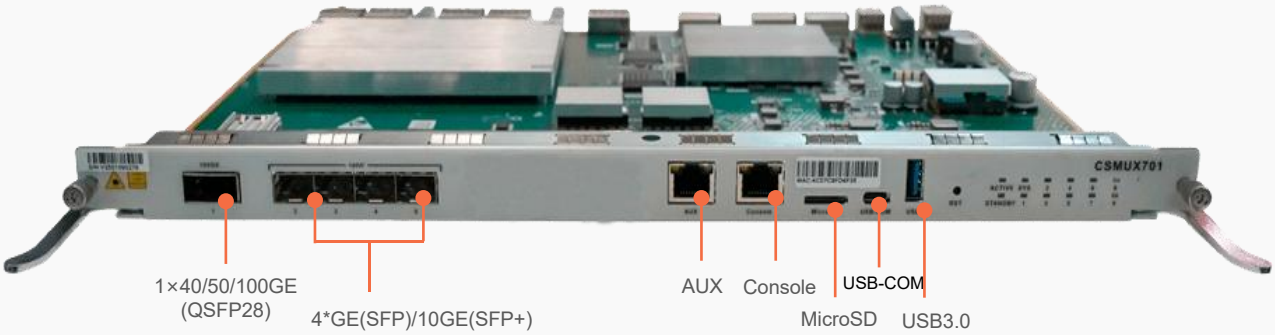
## Slots and Cards of V5600X7:

V5600X7



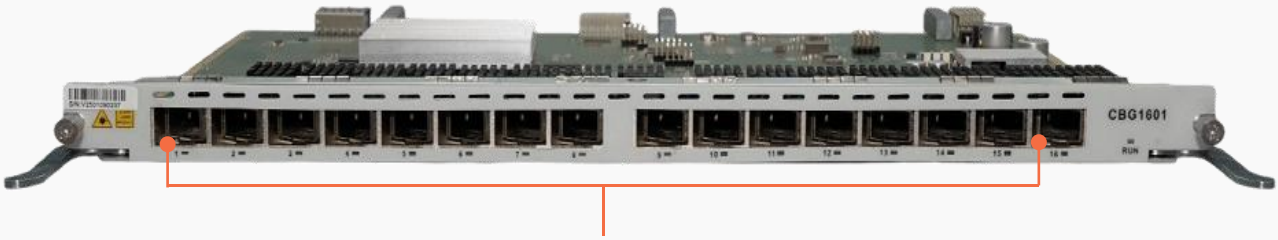
## Interfaces of CSMU Card:

CSMUX701




## Interfaces of Service Card:

CBG1601




CBXG08C01

CBXG16C01

*Coming soon

## Interfaces of Power Card:

PDX701

DC 48V

## Interfaces of Fan Card:

FX701

## Technical Specifications

### Management Function

- Telnet,CLI,WEB,SSH v2
- Fan Group Control
- Port Status monitoring and configuration management
- Online ONTconfiguration 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+

## Technical Specifications

| Item | | V5600X7 |
|---|---|---|
| Chassis | Rack | 19 Inch Standard |
| Dimension(L*W*H) | | 442*299*266.7mm(Without mounting ears) |
| Weight | Full of cards | 22.3kg |
| | Chassis only | 8.7kg |
| 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 |
| Backplane Bandwidth (Gbps) | | 3920 |
| Overall power consumption | Typical power consumption | 183W |
| | Peak power consumption | 872W |
| CSMU Card: CSMUX701 | | |
| Uplink Port | QTY | 5 |
| | SFP(GE)/SFP+(10GE) | 4 |
| | QSFP28(40GE/50GE/100GE) | 1 |
| Management Ports | | 1*AUX(10/100/1000BASE-T out-band port), 1*CONSOLE port, 1*MicroSD port, 1*USB-COM, 1*USB3.0 |
| Power consumption | | 95W（Typical value），113W（Peak） |
| 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 |
| Power consumption | | 30W（Typical value），36W（Peak） |
| Slot position | | Slot 1-4, Slot 7-9 |
| Service Card: CBXG08C01/CBXG16C01 | | |
| GPON&XG(S)-PON Combo Port | QTY | 8/16 |
| | 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<br>XG-PON: Upstream 2.488Gbps, Downstream 9.953Gbps<br>XGS-PON: Upstream 9.953Gbps, Downstream 9.953Gbps |
| | Wavelength | GPON: Upstream 1310nm , Downstream 1490nm<br>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 |
| Power consumption | CBXG08C01 | 41W（Typical value），48W（Peak） |
| | CBXG16C01 | 76W（Typical value），84W（Peak） |
| Slot position | | Slot 1-4, Slot 7-9 |

**Ordering Information:**

| Product Name | Product Description | Specific |
|---|---|---|
| V5600X7 chassis | Chassis of OLT | / |
| CSMUX701 | CSMU Card | 1*40/50/100GE(QSFP28)+4*GE(SFP)/10GE(SFP+)<br>+1*AUX+1*Console+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 |
| PDX701 | Power Supply Card | DC -48V |
| FX701 | Fan tray | Built-in 6 small fans |