

## HA7100 series OLT

### 1.1 Product profile

HA7100, developed by HiOSO Technology Co., Ltd, is large OLT equipment with rack structure. It can cooperate with HA7200 series remote equipment (ONU) to form an EPON connect through fiber and Passive Optical Distribution Network (ODN), supporting maximum 8 PON systems.

### 1.2 Description of the product shape

#### 1.2.1 Description of the rack

HA7100 OLT adopts 19-inch width and 3U height rack with 16 slots among which every two is offered to one OLT module, supporting maximum 8 OLT module cards. It has a concentrated power supply with active and standby power systems, supporting automatic switching.

#### 1.2.2 Description of module card panel

The picture is as following 1-2:



Figure 1-2 Module card panel of HA7100 OLT

### 1.3 Features and functions of the product

- Large capacity and long transmission distance

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HA7100 is large OLT equipment with rack structure and 8 OLT model cards, supporting 8 PON systems and 256 remote ONU equipments and ensuring 10 to 20 km transmission distance under high bandwidth. It is able to supply transmit function at L2/L3 wire speed. Each PON line supports 1Gbps up link and down link symmetrical bandwidth.

- **High QOS**  
Each PON system supports maximum 256 Logical Link Identifier (LLID) and adopts AES-128 encryption to each Logical Link Identifier; supporting Dynamic Bandwidth Allocation (DBA). Flexible bandwidth management function supply debugging to different data stream through queue、minimal and maximal bandwidth control and different stream weighting coefficient to fully guarantee QOS.
- **Flexible Dynamic Bandwidth Allocation**  
HA7100 OLT can implement any change from 1M to 1G-access bandwidth, supporting Dynamic Bandwidth Allocation (DBA) according to changeable requirement of the customer and related service.
- **Powerful OAM traits**  
HA7100 OLT supports auto-discovery and auto-register、user line testing、remote ONU fiber failure and power failure alert. It also contains abundant operation and manageable features such as MAC address limited and leached、IP address limited and leached、bandwidth control、VLAN、flow control.
- **Perfect network management function**  
Support convenient and simple CLI command line management;  
Support Telnet GUI management based on CLI;  
Support unified network management of GUI based on SNMP;  
Provide centralized management、Telnet supervising、Telnet debugging and maintenance、 and Telnet network upgrade.

**1.4 Technical Specifications**

Operation	Function support
<b>Wavelength</b>	1310 (RX) /1490 (TX)
<b>Optical power</b>	+2 to +7dBm
<b>Receiving sensitivity</b>	-27dBm
<b>Maximum transmission distance</b>	20 km
<b>Maximum optical slits rate</b>	1:32
<b>Rack Capacity</b>	Support 8 PON systems and 256 ONU
<b>MAC address table</b>	4k for an OLT module card, 32k for the whole rack
<b>MTBF</b>	100,000 hours
<b>EPON features</b>	Support IEEE802.3ah Support DBA with minimum1Kbps granularity adjustable Support 1Gbps up link and down link symmetrical bandwidth. Support AES-128 encryption to each Logical Link Identifier powerful OAM function, implement telnet management、maintenance and upgrade

	Support auto discovery and auto register of ONU (real-time operation)
<b>Protocols supported</b>	Support IEEE802.3、IEEE802.3u、IEEE802.3ab Support IEEE802.1q VLAN Support IEEE802.1p priority Support IEEE802.1d Bridge and STP
<b>Network management</b>	Support GUI management based on SNMP Support Local serial interface management and local serial interface management and Telnet GUI management based on CLI
<b>Other functions</b>	Support 1GMPv1/v2 protocol report、query and leave message mouse Support DHCP Snooping and Ipv4 address learning Support ARP snooping QoS etc

### 1.5 Physical features of the product

Parameter	Specification
<b>Maximum power consumption</b>	DC (5V/4A) (20W)
<b>Maximum module cards</b>	8
<b>Operating temperature</b>	-10~55℃
<b>Storage temperature</b>	-40~70℃
<b>Storage humidity</b>	5%~90% non-condensing
<b>Rack dimension</b>	481mm(W)*309mm(D)*132mm(H)/width*depth*height*