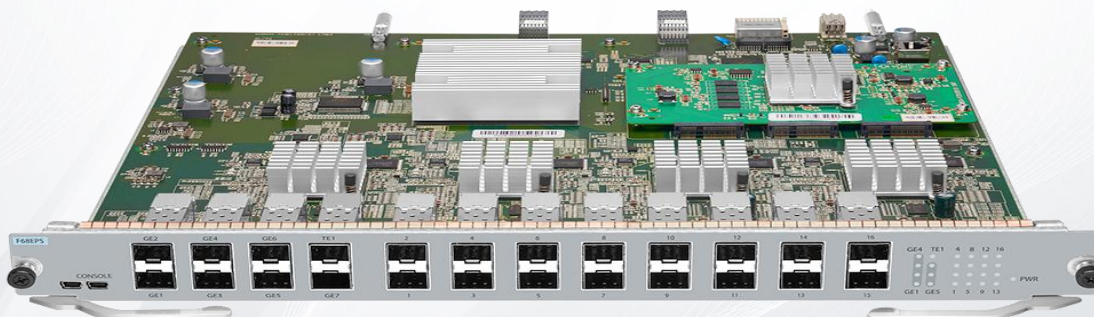FS

F68EPS EPON OLT Interface Board Datasheet

16-Port EPON OLT with 16 x EPON Ports and 1 x 10G SFP+, 7 x 1G SFP Ports, Without Optical Modules

Overview

F68EPS is an OLT device based on the IEEE standard protocol.

This product can provide users with a communication broadband of 1.25Gbps peer-to-peer upstream and downstream rates, and supports smooth evolution from EPON to 10G EPON. Compatible with mainstream ONU equipment in the market to form an efficient EPON solution.

Benefits

- 1:128 Splitting, Full Configuration of Single Board Supports 2k End User Access, 20km Long-Distance Coverage
- Support Smooth Evolution From EPON to 10G EPON
- Support DBA And QoS Functions, Precise Business Scheduling Capability
- Support OMCI Remote Management
- Full Interactive Capabilities

Technical Specification

OLT board comes with advanced hardware architecturedesign. Here's a look at the details.

CHARACTERISTICS

	F68EPS
Ports	
PON Ports	16 × EPON Ports
Uplink Ports	7 × 1G SFP 1 × 10G SFP+
System Capacity	Maximum 1:128 split
Transmission	
Transmission Speed	Downstream 1.25Gbps Upstream 1.25Gbps
Maximum Transmission Distance	20KM
Wavelength	Uplink: 1310 nm Downlink: 1490 nm
High Density	1:128 split, single board supports 2K end user access
OMCI Remote Management	Yes
Physical and Environmental	
Operating Temperature	0 to 40°C (32 to 104°F)
Operating Humidity	10%~90% (non-condensing)
Storage Temperature	-25 to 55°C (-13 to 131°F)
Storage Humidity	40%~90% (non-condensing)
Dimensions (HxWxD)	15.71"×15.04"×1.61" (399×382×41mm)
Installation	1U card slot

CHARACTERISTICS

Functionality	Description
Standards	• IEEE 802.3ah • IEEE 802.3av • IEEE 802.1D, Spanning tree • IEEE 802.1Q, VLAN • IEEE 802.1w, RSTP • IEEE 802.3ad Physical link static/dynamic aggregation（LACP） • Ethernet – II
PON Interface Features	• Downlink 1.25Gbps/Uplink 1.25Gbps transfer rate • Security: ONU authentication mechanism
VLANs	• Port-based VLAN, 4K VLAN table • Supports QinQ and flexible QinQ
QoS	• Back-pressure flow control (half duplex) • IEEE 802.3x flow control (full duplex) • IEEE 802.1p, CoS • WRR, SP and FIFO queue scheduling algorithm • Uplink/downlink Rate-limit based on each ONU • DBA and SLA
Multicast	• L2 Multicast • IGMP Snooping • MLD Snooping
Reliability	• Unidirectional link detection protocol to prevent survival tree loops • PON optical module hot swap • PON optical path protection • Supports the detection function of ONUs with abnormal light emission such as long light emission
Network Security	• Limit the maximum number of users per port • Port isolation • Packet Storm Control • Flow-based ACL access control function • PON port transmission data encryption
Management	• CLI, SNMP, TELNET and other management methods. • Software upgrade via TFTP • Chinese and English command prompt • Debug output debug
Layer 3 Function	• Support static routing, Ripv1/v2, OSPF, etc.