H650SFP Broadband Access FTTx/GPON ONT

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Overview

The H650SFP is a Gigabit Passive Optical Network (GPON) Stick type ONT in a compact SFP package. The GPON Stick provides a pluggable GPON interface for FTTx and wireless backhaul applications with a compact size and lower power consumption. By being plugged into the L2/L3 switch or CPE with standard SFP uplink port directly, the H650SFP provides a 1.244 Gbps upstream and a 2.488 Gbps downstream data link over a single fiber. Any standard Ethernet SFP switch port can simply convert to a GPON ONT port and interconnect to an existing GPON network with the insertion of the module.

Features

• GPON Features
- Complete GPON ONT functoinality in a compact SFP package
- ITU-T G.984.x compliant GPON ONT
- Data rate of 1.244Gbps/2.488Gbps (US/DS)
- Managed by OLT over GPON via G.988 OMCI channel
• Product Features
- Supports many new applications, including FTTx and mobile/pico backhaul services
- No separate power supply and cables
- Low power consumption
- Designed to interoperate with other L2/L3 switch with SFP type uplink port

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Specification

Flash Memory	32MB
SDRAM	1GB DDR3
Uplink Port	1 GPON port (SC/APC, SFP compliant interface)
Service Port	1 port SGMII (SerDes/SFP compliant interface)
Operating Temp.	-40 to 176°F (-40 to 80°C)
Storge Temp.	-40 to 185°F (-40 to 85°C)
Operating Humidity	5 to 95% (non-condensing)
Power Voltage	Input: 3.14-3.46VAC
Power Consumption	2.5W
Dimensions (W x H x D)	2.83 x 0.49 x 0.55 in (72 x 12.5 x 14.1 mm)

Capabilities

GPON	• ITU-T G.984 compliant • Forward Error Correction (FEC) • Multiple T-CONTs/GEM ports per device • Flexible mapping between GEM port and T-CONT • Dying gasp
Layer 2	• Untagged port configuration • IEEE 802.1D and IEEE 802.1Q bridging • Standard Ethernet bridging • MAC address learning with auto aging (Up to 1K MAC addresses)
VLAN	• VLAN port filtering • Destination address port filtering • Source MAC address learning • 32 active VLANs
Multicast	• IGMP snooping
QoS	• HW-based internal IEEE 802.1p (CoS) • Strict Priority (SP) • 802.1Q (VLAN tag) QoS mapping, ToS/CoS • 8 queues per port
OAM	• Standard compliant OMCI interface • ITU-T G984.4 and G983.2 • Alarming and AVC report

Sample Configuration