DM986 – 400P
GPON POE+ ONU

DATASHEET

DM986 – 400P

ONU - Optical Network Unit

The DM986-400P ONU is an excellent optical access solution using GPON technology, offering high speed and great cost-effectiveness for broadband applications and Triple Play services (voice, video, and data). This technology allows for the sharing of optical fiber among customers, reducing costs and maximizing the utilization of installed bandwidth and fibers.

The DM986-400P is compatible with ITU-T G.984 and ITU-T G.988 standards for access applications in primarily PON LAN networks. It supports native Power Over Ethernet for connecting IP phones, CCTV monitoring cameras, access points, and other devices. Ethernet data is transported transparently over the GPON link and delivered to an Optical Line Termination (OLT) unit such as the DM4610, DM4611, DM4612, DM4615, DM4618, and other OLTs.

It features four electrical Ethernet interfaces at 10/100/1000Mbps (Base-T) with support for PoE (802.3af 15W) / PoE+ (802.3at 30W) with adaptive power, meaning it can automatically detect and provide power to devices compliant with IEEE802.3af/at standards. The total power output supported per ONU is up to 120W.

Its flexible mounting options allow it to be installed on a desk or wall, providing a versatile solution for different environments and network needs.

- GPON Gigabit Ethernet ONU
- GPON classe B+ Transceiver
- 4x LAN Gigabit Ethernet Interfaces
- PoE / PoE+ (up to 30W per interface)
- PoE Power Budget: 120W
- Bridge operating mode (SFU)
- IGMP Snooping v2

TECHNICAL SPECIFICATION

Item	Description
Dimensions (H x W x D)	28 x 170 x 98 mm
Operational Conditions	Temperature: 0ºC to 40ºC – Humidity: 5% to 90%, uncondensed
Storage Conditions	Temperature: -40ºC to 85ºC – Humidity: 5% to 95%, uncondensed
Power Supply	External adapter. Input 100 ~ 240 Vac, 50/60Hz – Output: 54V
Power Consumption	125W
Polarity	
GPON	1x GPON interface, SC/PC connector
	According to ITU-T G.984 and ITU-T G.988
	Upstream: 1.244 Gbit/s and Downstream: 2.488 Gbit/s
	Laser type B+, according to ITU-T G.984.2 Amd1 TX Power: +0.5dBm to +4dBm, RX Sensibility: -28dBm Wavelengths: upstream 1310nm and downstream 1490nm Laser according to FCC 47 CFR Part 15, Class B, FDA 21 CFR 1040.10 and 1040.11, Class I
	AES-128 Decryption
	DBA Support
	Unlocked for third-party OLTs
LAN Ethernet Interfaces	4x LAN 10/100/1000 Base-T interfaces, RJ-45 connector
	Pinout identification via MDI / MDIX
	Support standards IEEE802.3 and IEEE8023u
	Virtual switch based on 802.1q
	Loop Detection
	PoE standards: IEEE802.3af 15.4W, IEEE802.3at 30W each interface
	Maximum PoE Power Budget: 120W
	PoE working mode: Automatic detection of device receiving power / shutdown
Software	Bridge operating mode (SFU)
	QoS Support
	Rate limit on ethernet interfaces
	IGMP Snooping v2
Management	Web interface management
	Remote firmware upgrade via OLT or Web interface
	Provisioning by OMCI protocol according to G.984 and G.988
	Alarms
	Performance monitoring
	Ping IPv4 / IPv6, Traceroute IPv4 / IPv6

ORDERING INFORMATION

Model	Description	Photo
DM986 – 400P *820.4524.00*	GPON bridge (SFU) ONU, with 4 10/100/1000Base-T LAN ports (RJ45) with PoE/PoE+ support. Metal enclosure with external AC power supply with automatic selection.	

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