

DATAKOM



DM986 - SFP

GPON ONU

DATASHEET

DM986 - SFP

ONU - Optical Network Unit

GPON (Gigabit Passive Optical Network) is a solution for optical access, offering high speed and great value for money for broadband applications and Triple Play services (voice, video and data). This technology allows optical fibre to be shared between customers, reducing costs, and maximizing the use of bandwidth and installed fibres.

The DM986-SFP is a pluggable GPON ONU in SFP format, allowing it to be used in network equipment with SFP interfaces. It supports operation in Bridge mode (SFU), compatible with the ITU-T G.984 and ITU-T G.988 standards for high-speed fiber optic access applications, allowing data, voice and video over IP services to be offered to business and residential users.


On the client side, the ONU functions as a Gigabit Ethernet LAN interface. Ethernet data is transported transparently over the GPON link and delivered to an Optical Line Termination (OLT) unit, such as the DM4610 OLT (4-GPON and 8-GPON), DM4615 OLT (16-GPON) and DM4618 (64-GPON).

- Gigabit Ethernet GPON ONU
- GPON classe B+ Transceiver
- GPON SC/UPC Interface
- Bridge Mode

TECHNICAL SPECIFICATIONS

Item	Description
Dimensions (H x W x D)	14,1 x 13,65 x 79 mm
Operational Conditions	Temperature: 0°C to 70°C – Humidity: 5% to 95%, non-condensing
Storage	Temperature: -40°C to 85°C – Humidity: 5% to 95%, non-condensing
Average Power Consumption	< 2,5 W
GPON	1x GPON Interface, SC/UPC connector
	According to ITU-T G.984 and ITU-T G.988
	1.244 Gbit/s upstream and 2.488 Gbit/s downstream
	Laser typo B+, according to ITU-T G.984.2 Amd1
	Transmission Power: +0,5dBm to +5dBm, Reception sensibility: -28dBm
	Reception overload: -8dBm
	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 IEC-60825
Digital Diagnostic monitor SFF-8472 (DDM)	
AES-128 decryption	
DBA support	
LAN Ethernet SFP Interface	1x LAN 1Gb Ethernet SFP interface
	MTU: 1950 bytes
	Mac Table: 512 Address
Operating Mode	Bridge (SFU)
Management	Web interface management
	Remote firmware upgrade via OLT or Web interface
	Provisioning by OMCI protocol according to G.984 and G.988
Standards	SFP Multi-Source Agreement (MSA) SFF-8074i
	SFF 8472 V9.5
	ITU-T G.984.2, G.984.2 Amendment 1
	SFF 8472 V9.5

ORDERING INFORMATION

Model	Description	Photo
DM986 – SFP <i>825.8039.xx</i>	GPON ONU Bridge in SFP format, with a GPON SC/UPC interface with type B+ laser. Management via the OMCI protocol in accordance with ITU-T G.988.	

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