

# 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 cost-benefit for broadband applications and Triple Play services (voice, video and data). This technology allows the sharing of optical fiber between customers, reducing the cost and maximizing the use of band and installed fibers.

The DM986-SFP is a pluggable GPON ONU in SFP format, allowing its use in network equipment that has SFP interfaces. It supports Bridge Mode Operation (SFU), compatible with 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 transparently transported over the GPON link and delivered to an Optical Line Termination (OLT) unit, such as the DM4611 (4-GPON), DM4612 (8-GPON), DM4610 OLT (4-GPON and 8-GPON), DM4615 OLT (16-GPON), and DM4618 (64-GPON).

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

# TECHNICAL SPECIFICATION

Item	Description
Dimensions (H x W x D)	14.1 x 13.65 x 79 mm
Operating 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
Typical Consumption	< 2.5 W
GPON	1x GPON interface on SC/UPC connector
	Complies with ITU-T G.984 and ITU-T G.988
	1,244 Gbit/s upstream and 2,488 Gbit/s downstream
	Type B+ laser, in accordance with ITU-T G.984.2 Amd1
	Transmit Power: +0.5dBm to +5dBm, Receive Sensitivity: -28dBm
	Saturation: -8dBm
	Wavelengths: upstream at 1310nm and downstream at 1490nm
	Laser de acordo com FCC 47 CFR Part 15, Class B, FDA 21 CFR 1040.10 e 1040.11, Class I IEC-60825
Digital Diagnostic monitor SFF-8472 (DDM)	
AES-128 Descriptography	
DBA support	
LAN Ethernet SFP Interface	1 LAN interface 1Gb Ethernet SFP
	1500 bytes MTU
	MAC table with up to 1024 addresses
Operation Mode	Bridge (SFU)
Management	Web interface management
	Allows firmware upgrade remotely via OLT or web interface
	Provisioning under the OMCI protocol as per ITU-T G.984 and ITU-T G.988
Standards and Norms	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
<b>DM986 – SFP HW2</b> <i>825.8050.xx</i>	ONU GPON Bridge in SFP format, has a GPON SC/UPC interface with B+ type laser. Management through the OMCI protocol according to ITU-T G.988.	

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