

DATACOM



DM986 - 110

GPON ONU

DATASHEET

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ONU - Optical Network Unit

GPON (Gigabit Passive Optical Network) is a solution for optical access, offering high speed and cost-effectiveness 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 DM986-110 is an EPON and GPON ONU, compatible with the ITU-T G.984, ITU-T G.988 and IEEE 802.3ah standards for high-speed fiber optic access applications, allowing data, voice and video over IP services to be offered to business and residential users.

This ONU has a Gigabit Ethernet LAN interface and an FXS port for telephony. Ethernet data is transported transparently over the GPON link and delivered to a line termination unit (OLT, Optical Line Termination), such as the DM4610 OLT (4-GPON and 8-GPON), DM4615 OLT (16-GPON) and DM4618 (64-GPON).

ONU DM986-110 also features remote management via the TR-069 protocol. With this feature, the ISP can manage all the routers installed on its subscribers via the cloud. Management via TR-069 enables the ISP to carry out remote diagnostics and tests, reducing operating costs.


- Gigabit Ethernet GPON ONU
- EPON Support
- GPON classe B+ Transceiver
- 1x LAN Gigabit Ethernet Interface
- 1x Voice Interface (FXS)
- TR-069

TECHNICAL SPECIFICATION

Item	Description
Dimensions (H x W x D)	24,5 x 147 x 92 mm
Operational Conditions	Temperature: 0°C to 45°C – Humidity: 10% to 90%, non-condensing
Storage Conditions	Temperature: -40°C to 70°C – Humidity: 5% to 95%, non-condensing
Power Supply	External adapter. Input: 100 ~ 240 Vac, 50/60Hz – Output: 12V, 1A
Average Power Consumption	< 12 W
Polarity	
GPON	1x EPON / GPON interface, SC/APC Connector
	According to ITU-T G.984, ITU-T G.988 and IEEE 802.3ah.
	1.244 Gbit/s upstream and 2.488 Gbit/s downstream
	Laser type B+, according to ITU-T G.984.2 Amd1
	Transmission Power: +1dBm to +4dBm, Reception 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
LAN Ethernet Interfaces	AES-128 decryption
	DBA support
	Unlocked for third-party OLTs
	1x LAN 10/100/1000 Base-T Interface, RJ-45 connector
	Pinout identification via MDI / MDIX
	Virtual switch based on 802.1q
Voice Interface	DHCP IPv4/IPv6 Server, Static IPv4/IPv6
	IGMP v1 / v2 / v3
	MTU: 1600 bytes
	1x POTS/FXS interface, RJ11 connector
	DTMF
Routing	Multiples codecs (G711 ulaw/alaw, G729, G720, G722)
	SIP RFC3261
	Call Transfer, Call Waiting, DND (Don't Disturb), Alarm, Call History and Register status
	Multiple WAN connections
	- IPv4: PPPoE, IPoE (Static IP and DHCP)
	- IPv6: PPPoE, IPoE (Static IPv6, SLAAC, DHCPv6, Auto)
- Bridged PPPoE and Transparent Bridge	
Security	Multiple LAN and Wi-Fi connections: DHCP IPv4/IPv6 Server, Static IPv4/IPv6
	IPv4/IPv6 Addressing
	NAPT
	IPv4/IPv6 static routing
	DNS Proxy, Static DNS, Dynamic DNS
Security	DMZ
	Filters: MAC and IP/Port
	Port Forwarding, URL Blocking, IP Whitelist

	UPnP, Loop Detection
	Web interface management/ Remote management via TR-069
	Remote firmware upgrade via OLT or Web interface
Management	Provisioning by OMCI protocol according to G.984 and G.988
	ACL for access via WAN/LAN interfaces
	SNTP, Samba, Syslog Server
	Ping IPv4 / IPv6, Traceroute IPv4 / IPv6

ORDERING INFORMATION

Model	Description	Photo
<p>DM986 – 110 825.8034.xx</p>	<p>GPON ONU with integrated router, 1 LAN port 10/100/1000Base-T (RJ45) and 1 voice port. Plastic housing, external AC power supply with automatic selection.</p>	

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