



# DM980 GPON ONU FAMILY

DATASHEET

October/2021

# DM980 gpon onu – optical network unit

#### COMPACT HIGH CAPACITY ONUS FOR FTTX GPON NETWORKS

GPON (Gigabit Passive Optical Network) is an optical access solution, 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 among customers, reducing the cost and maximizing the use of bandwidth and installed fibers.

The DM980 GPON ONU (Optical Network Unit) family offers a complete portfolio of ONUs for high speed fiber optic access solutions. It enables data, voice and video services over IP to be offered. Ethernet data is transported transparently over the GPON link and delivered to an OLT (Optical Line Termination), such as the DM4610 OLT (4-GPON and 8-GPON) and the DM4615 OLT (16-GPON).

The family is made up of the DM984, DM985 and DM986 product lines, offering several ONU models for different GPON applications, all compatible with the ITU-T G.984 and ITU-T G.988 standards. Product lines contain models with support for operations in Bridge or Router mode (PPPoE or DHCP), models with support for single-band or dual-band Wi-Fi interfaces and also models with FXS interfaces for voice services. All Datacom ONUs have their Gigabit Ethernet LAN interfaces, ensuring maximum performance in wired connections.

- Family of ONUs formed by three product lines offering a complete GPON solution
- Class B+ GPON Transceiver
- Low energy consumption
- Modern and elegant design
- All Gigabit Ethernet LAN interfaces
- Bridge or Router operation modes
- Single Band or Dual Band Wi-Fi options
- Models with FXS voice interface support

134.4931.03 - Oct/2021

### DM984 MODELS

#### DM984-100B

ONU Bridge with an integrated Gigabit Ethernet LAN interface and integrated OFE (optical fiber enclosure), managed through the OMCI protocol according to ITU-T G.988. One of its differentials is the laser type C+ support.



#### DM984-420

ONU Router with four Gigabit Ethernet LAN interfaces, two FXS voice interfaces and integrated OFE (optical fiber enclosure). GPON SC/APC type B+ interface, managed through the OMCI protocol according to ITU-T G.988. PPPoE or DHCP operating mode and IPv6 support.



#### DM984-422

ONU Wi-Fi Router with four Gigabit Ethernet LAN interfaces, two FXS voice interfaces, 2.4 GHz single band Wi-Fi interface and integrated OFE (optical fiber enclosure). GPON SC/APC type B+ interface, managed through the OMCI protocol according to ITU-T G.988. PPPoE or DHCP operating mode and IPv6 support.





## DM985 MODELS

#### DM985-100

ONU for operation in Bridge or Router modes with a Gigabit Ethernet LAN interface, GPON SC/APC interface with type B+ laser. Management through the OMCI protocol according to ITU-T G.988. Allows remote FW updates. Dying Gasp, PPPoE or DHCP operating mode and IPv6 support.



#### DM985-424

ONU Router with four Gigabit Ethernet LAN interfaces, two FXS interfaces for voice, 2.4GHz and 5GHz Dual-Band Wi-Fi interface and GPON SC/APC interface with type B+ laser. 2x2 MIMO Wi-Fi with 4 antennas on two rods, beamforming support ensuring high performance and signal coverage. Management through OMCI protocol ITU-T G.988 or TR-069. PPPoE or DHCP operating mode and IPv6 support.



#### DM985-102

ONU Router with a Gigabit Ethernet LAN interface, 2.4GHz Wi-Fi interface and GPON SC/APC interface with type B+ laser. 2x2 MIMO Wi-Fi with 2 external antennas ensuring optimum performance and signal coverage. Management through OMCI protocol ITU-T G.988 or TR-069. PPPoE or DHCP operating mode and IPv6 support.



## DM986 MODELS

#### DM986-100

ONU for operation in Bridge or Router modes with one Gigabit Ethernet LAN interface, GPON SC/APC interface with type B+ laser. Management through the OMCI protocol according to ITU-T G.988 and support for TR-069. PPPoE or DHCP operating mode and IPv6 support.



#### DM986-414

ONU Router with four Gigabit Ethernet LAN interfaces, one FXS voice interface, Dual-Band Wi-Fi with 2.4GHz and 5GHz support and a GPON SC/APC interface with type B+ laser. Wi-Fi interface is MIMO 2x2 based in four antenas instaled in two rods, beamforming support for high performance and strong signal coverage. The ONU can be managed through OMCI protocol according to ITU-T G.988 ou TR-069. Support for PPPoE or IPoE/DHCP modes os opperation, with IPv6 support.

		DM984-100B	DM985-100	DM986-100	DM985-102	DM984-420	DM984-422	DM985-424	DM986-414
Interfaces	GPON Interface	SC/APC, C+	SC/APC, B+	SC/APC, B+	SC/APC, B+	SC/APC, B+	SC/APC, B+	SC/APC, B+	SC/APC, B+
	LAN Interfaces	1x GE	1x GE	1x GE	1x GE	4x GE	4x GE	4x GE	4x GE
	Voice Interfaces	-	-	-	-	2	2	2	1
۱۸/: <b>۲</b> :	Standards	-	-	-	b/g/n	-	b/g/n	b/g/n/ac	b/g/n/ac
Wi-Fi	MI-MO	-	-	-	2 x 2	-	2 x 2	2 x 2	2×2
Software	Operation Modes	Bridge	Bridge / DHCP / PPPoE	Bridge / DHCP / PPPoE	Bridge / DHCP / PPPoE	Bridge / DHCP / PPPoE			
	MTU	2000	1500	FW HGU: 1500 FW SFU: 1600	1600	2000	2000	1500	1600
	RG-Profile	-	Partial	-	-	Yes	Yes	-	-
	TR-069	-	-	Yes	Yes	-	-	Yes	Yes
	IPv6	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Integrated OFE	Yes	-	-	-	Yes	Yes	Yes (HW3 version)	-
	Power Supply	Power Supply External Power Supply, input 100~240Vac, 50/60Hz							
Hardware	Power Consumption	2,5W	4W	2,5W	6W	9,5W	12W	15W	12W
	Operational Temperature	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 50°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
	Dimensions HxWxD (mm)	46 x 190 x 160	28 x 72 x 90	20 x 74 x 74	30 x 130 x 105	46 x 190 x 160	46 x 190 x 160	33 x 149 x 210	27 x 184 x 136

# Ordering Information

Model	Description	
<b>DM984 – 100B</b> 800.5211.xx	GPON ONU with class C+ laser, one 10/100/1000Base- T (RJ45) LAN port. Plastic cabinet. External AC power supply.	Supercon
<b>DM984 – 420</b> 800.5162.xx	GPON ONU with integrated router, four 10/100/1000Base-T (RJ45) LAN ports and 2 FXS ports. Plastic cabinet. External AC power supply.	Same and a summer
<b>DM984 – 422</b> 800.5156.xx	GPON ONU with integrated router, four 10/100/1000Base-T (RJ45) LAN ports, 2 FXS ports and Wi-Fi 802.11b/g/n. Plastic cabinet. External AC power supply.	Sisterior
DM985 – 100 HW3 <i>825.8013.xx</i>	GPON ONU with one LAN 10/100/1000Base-T (RJ45). Bridge and router operation. WAN-PPPoE or WAN-IP. Plastic cabinet. External AC power supply.	DATACON
DM985 – 102 825.8014.xx	GPON ONU with integrated router, 1 LAN port 10/100/1000Base-T (RJ45) and Wi-Fi 802.11b/g/n. Plastic cabinet and external AC source with automatic selection.	
DM985 - 424 HW3 825.8015.xx	GPON ONU with four LAN 10/100/1000Base-T (RJ45), two FXS (RJ11) and Wi-Fi 802.11 b/g/n/ac. Router operation. WAN-PPPoE or WAN-IP. Plastic cabinet with four external antennas in 2 physical stems. External AC power supply.	LOAN MAR COM
DM986 - 100 825.8016.xx (bridge) 810.3819.xx (router)	GPON ONU operating in bridge or router mode, with one 10/100/1000Base-T (RJ45) LAN port. Plastic cabinet. External AC power supply.	Daracons
DM986 – 414 825.8017.xx	GPON ONU with four LAN 10/100/1000Base-T (RJ45), one FXS (RJ11), Wi-Fi 802.11 b/g/n/ac and one USB port. Support router operation. WAN-PPPoE or WAN- IP. Plastic cabinet with four external antennas in 2 physical stems. External AC power supply.	- Company



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