

DATACOM



DM4616

XGS-PON OLT

PRODUCT DATASHEET

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DM4616

XGS-PON OLT FOR HIGH CAPACITY FTTH APPLICATIONS

XGS-PON (10 Gigabit Symmetrical Passive Optical Network) is an optical access solution that offers symmetrical access speeds of up to 10Gbps per port, for broadband applications, Triple Play services (voice, video and data), corporate services and other solutions. This technology allows the sharing of optical fiber among customers, reducing costs and maximizing bandwidth utilization. In addition, the DM4616's XGS-PON solution supports coexistence with GPON technology in the same fiber, allowing the gradual migration of services without the need for a high initial investment.

DM4616 is a Standalone OLT, 1U high, ready for installation in standard 19-inch Racks, containing up to 04x XGS-PON interfaces and 04x 10GbE interfaces, all in SFP+ connectors. It supports a Split Ratio of up to 1:256 per port, with a maximum capacity of up to 1024 XGS-PON clients per OLT. Multiple 10GbE uplinks ensure wire speed operation without oversubscription.

The product is fully compliant with the ITU-T G.9807.1 standard, with each link operating at downstream and upstream rates of 9.953Gbit/s.

The DM4616 is based on the DmOS operating system, a platform that ensure robustness and high availability of services with many network functionalities. DmOS aims to accelerate the deployment of services and applications, as it is used in several DATACOM products.

The equipment has a command line interface (CLI) accessible through SSHv2, Telnet and RS-232 console. SNMP v1, v2c and v3 agents are available. In addition, it provides an XML interface based on the NETCONF standard.

Commit and rollback operations (commands and Firmware), the use of user authentication via RADIUS and TACACS, local and remote Syslog are available to facilitate the configuration, management and troubleshooting of the equipment.

- Compact Design
- 04x XGS-PON interfaces
- 04x 10GbE SFP+ uplink interfaces
- XGS-PON Classe N2
- Allows coexistence with the GPON signal on the same fiber
- DHCP option 82
- PPPoE Intermediate Agent
- Redundant and hot-swappable AC or DC power supplies




TECHNICAL SPECIFICATIONS





Category	Item	Specification
Interfaces	XGS-PON	4
	10GbE SFP+	4
	GE Outband Management (RJ45)	1
	Console (RJ45)	1
Environmental Information	Operating Temperature	0°C to 65°C
	Operating Relative Humidity	0% to 95%, uncondensed
	Altitude	0 to 3000m
	Storage Temperature	-10°C to 70°C
	Storage Relative Humidity	0% a 95%, uncondensed
Dimensions and Weight	Height	44 mm (1U)
	Width (with L adaptors)	480 mm
	Width (without L adaptors)	445 mm
	Depth	260 mm
	Net Weight (without accessories)	3,25 Kg
Power Supplies	Power Supplies	2 slots for hot-swappable AC or DC PSU
	AC Power Supply: PSU 125 AC	Rated Operating Voltage: 100 to 240VAC 50/60HZ
	DC Power Supply: PSU 125 DC	Rated Operating Voltage: -48 to -60VDC (+-20%)
Software	DmOS	9.0 or higher

More information about features and scalability can be found in the DmOS datasheet.

DM4616 PART-NUMBERS

Produto	Descrição	
DM4616 4XGS-PON 800.5298.xx (FAN included)	XGS-PON OLT, with 4 XGS-PON interfaces and 4x 10GE SFP+ interfaces. FANs included. Power Supplies PSU 125 AC and PSU 125 DC PSU125 DC. Power supply and transceivers must be purchased separately.	
PSU 125 AC 800.5187.xx	Power supply with 100Vac to 240Vac input. It allows hot swapping and operates in redundancy with backup source.	
PSU 125 DC 800.5188.xx	Power supply with -48Vdc input. It allows hot swapping and operates in redundancy with backup source.	

ACCESSORIES

Acessório	Descrição	
SFP+ XGS-PON OLT N2 PN: 377.0233.00	SFP+ optical module, one fiber, N2 standard for XGS-PON interface.	
WDM1r 1 port – 30dB PN: 815.4536.xx	1-port multiplexer to implement coexistence between GPON and XGS-PON technologies on the same fiber. It has a signal filtering capacity of 30dB. Module with already shipped optical cords of 2m each.	
WDM1r 4 ports – 30dB PN: 815.4537.xx	4-port multiplexer to implement coexistence between GPON and XGS-PON technologies on the same fiber. It has a signal filtering capacity of 30dB. Module with already shipped optical cords of 2m each.	

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