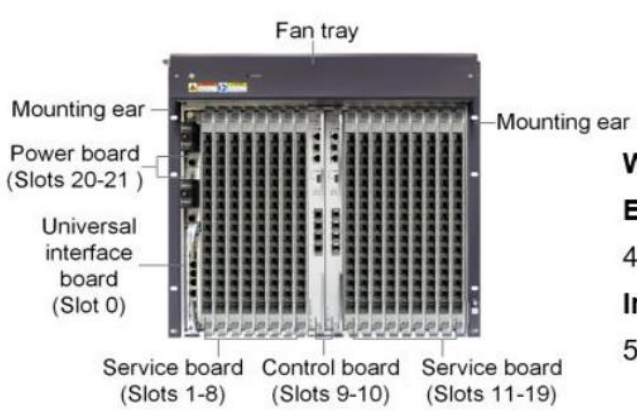
光语
GLORY

MA5800-G

Datasheet



W x D x H

Excluding mounting brackets:

493 mm x 287 mm x 486 mm

Including mounting brackets:

535 mm x 287 mm x 486 mm

MA5800-X17-G (large-capacity, ETSI)

MA5800-X17-G supports 17 service slots with backplane H901BPLB.

W x D x H

Excluding mounting brackets

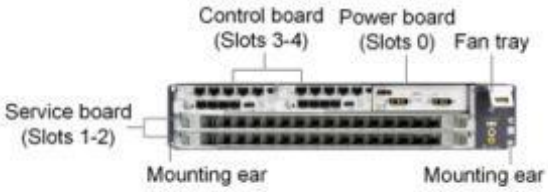
442 mm x 287 mm x 486 mm

Including mounting brackets:

482.6 mm x 287 mm x 486 mm

MA5800-X15-G (large-capacity, IEC, V100R016C10 and later versions)

MA5800-X15-G supports 15 service slots with backplane H901BPIB.



W x D x H

Excluding mounting brackets:

442 mm x 268.7 mm x 88.1 mm

Including IEC mounting brackets:

482.6 mm x 268.7 mm x 88.1 mm

Including ETSI mounting brackets:

535 mm x 268.7 mm x 88.1 mm

MA5800-X7-G (medium-capacity, V100R016C00 and later versions)

MA5800-X2-G supports 2 service slots with backplane H901BPSB.

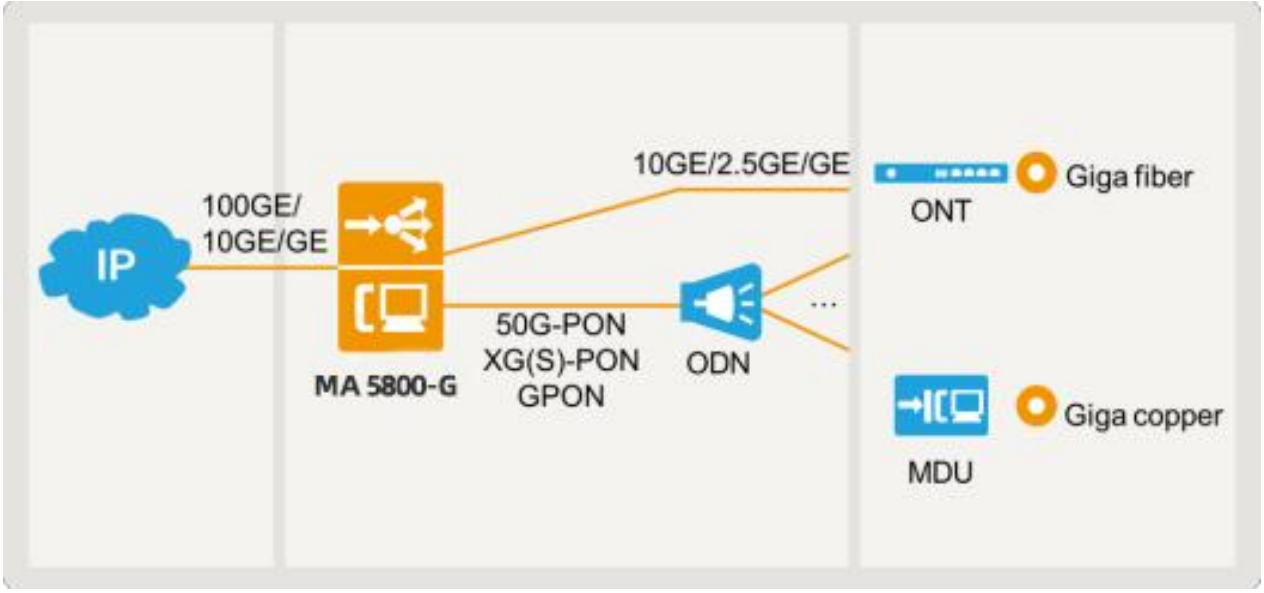
Product Overview

The MA5800-G is the industry's first smart aggregation OLT with a distributed architecture. It is positioned as an OLT oriented to

the ultra-gigabit era. The product is designed to help carriers build networks with larger bandwidths, higher speeds, and smarter connectivity to deliver better service experience.

Providing GPON, 10G PON (including XG-PON and XGS-PON), 50G-PON, P2P 10GE/2.5GE/GE access, the MA5800-G supports deployment on FTTH, FTTD, FTTB, and FTTC networks. This makes it applicable to home access, enterprise access, mobile backhaul, and Wi-Fi hotspot backhaul scenarios to aggregate all services on one fiber network.

The MA5800-G functions as a large-capacity aggregation device on the network to aggregate the traffic from ONTs, MDUs, and campus switches, thereby simplifying the network architecture and reducing the OPEX.



Instructions

The MA5800-G supports four types of subracks. The only difference between these subracks relies on the service slot quantity (they have the same functions and network positions).

Product Specifications

Item	MA5800-X17-G	MA5800-X15-G	MA5800-X7-G	MA5800-X2-G
Supported Cabinet	N63E-22, N66E-18	N66E-22	N63E-22, N66E-22	N63E-22
Board Configuration	Control board slots: 9, 10 Service board or upstream interface board slots: 1-8, 11- 19 Universal interface board slot: 0 Power board slots: 20, 21	Control board slots: 8, 9 Service board or upstream interface board slots: 1-7, 10- 17 Universal interface board slot: 0 Power board slots: 18,19	Control board slots: 8,9 Service board or upstream interface board slots: 1-7 Universal interface board slot: 0 Power board slots: 10, 11	Control board slots: 3,4 Service board or upstream interface board slots: 1-2 Does not support the universal interface board. Power board slot: 0
Dimensions (W × D × H) (mm)	Excluding mounting ears: 493 × 287 × 486 Including mounting ears: 535 × 287 × 486	Excluding mounting ears: 442 × 287 × 486 Including mounting ears: 482.6 × 287 × 486	Excluding mounting ears: 442 × 268.7 × 263.9 Including IEC mounting ears: 482.6 × 268.7 × 263.9 Including ETSImounting ears: 535 × 268.7 × 263.9	Excluding mounting ears: 442 × 268.7 × 88.1 Including IECmounting ears: 482.6 × 268.7 × 88.1 Including ETSImounting ears: 535 × 268.7 × 88.1
Maximum Weight (including mounting brackets)	45kg	35kg	26kg	9.4kg
Maximum Input Current	60 A	60 A	40 A	DC power supply: 20 A AC power supply: 8 A
Power Supply Mode	DC power support (dual backup)			DC power support (dual backup) AC power supply + battery for backup
Working Voltage Range	-38.4 VDC to -72 VDC			DC power supply: - 38.4 V to -72 V AC power supply: 100-240 V
Rated Voltage	-48 V/-60 V			DC power supply: -48 V/-60 V AC power supply: 110 V/220 V
Ambient Temperature	-40℃ to +65℃ The MA5800-G can start up at a lowest temperature of -25℃. NOTE The +65℃ temperature refers to the highest temperature measured at the air intake vent of a service subrack.			
Ambient Humidity	5%-95% RH			
Atmospheric Pressure	70-106 kPa			
Altitude	< 4000 m. The air density varies with the altitude and will affect the heat dissipation of a device. Therefore, the working environment temperature of the MA5800-G varies with the altitude.			
Payload Switching Capacity of the Control Board (load sharing mode)	MPLA: 3.6 Tbit/s MPLB: 7.0 Tbit/s MPLG: 7.3 Tbit/s			MPSA/MPSG: 248 Gbit/s MPSD: 560 Gbit/s
Maximum Payload Bandwidth Per Service Slot (load sharing mode)	MPLA: 100 Gbit/s MPLB/MPLG: 200 Gbit/s			MPSA/MPSG: 40 Gbit/s MPSD: 100 Gbit/s
Maximum Number of Concurrent 4K Video Users	17000		7000	2000
Maximum Number of MAC Addresses	262143			
Maximum Number of IPv4 Routing Tables	65536			
Maximum Number of IPv6 Routing Tables	16384			
Maximum Number of ARP Tables	131072			32768
Upstream Ports(dual control boards for upstream transmission)	MPLA/MPLB: 8*10GE/GE MPLG: 2*100GE + 4*10GE/GE			MPSA/MPSG: 4×10GE/GE + 4×GE MPSD-G: 8×10GE/GE

GPON Ports	272	240	112	32
XG-PON Ports	272	240	112	32
XGS-PON Ports	272	240	112	32
XG-PON & GPON Combo Ports	272	240	112	32
XGS-PON & GPON Combo Ports	272	240	112	32
Symmetric 50G-PON & XGS-PON Combo Ports	16	16	16	N/A
GE Ports	816	720	336	96
10GE/2.5GE Ports	408	360	168	16

Full Range of Enterprise Wireless Models

		Model	OLT
Enterprise Optical Network	**Optical Access**	MA5800-X2-G	Dimensions (W × D × H) : 442mm × 268.7mm × 88.1mm Service Slots: 2 Maximum number of two access ports: · 32 XG-PON/XGS-PON/GPON · 96 GE/FE · 48 10GE
		MA5800-X7-G	Dimensions (W × D × H) : 442mm × 268.7mm × 263.9mm Service Slots: 7 Maximum number of seven access ports: · 112 XG-PON/XGS-PON/GPON · 336 GE/FE · 168 10GE
		MA5800-X15-G	Dimensions (W × D × H) : 442mm × 287mm × 486mm Service Slots: 15 Maximum number of access ports: · 240 XG-PON/XGS-PON/GPO
		MA5800-X17-G	Dimensions (W × D × H) : 493mm × 287mm × 486mm Service Slots: 17 Maximum access ports: · 272 XG-PON/XGS-PON/GPON · 816 GE/FE · 408 10GE
		MA5801-G	Dimensions (W × D × H) : 442mm × 220mm × 43.6mm Maximum number of access ports: · 16 GPON · 4 GE/10GE
		Model	**MDU**
		MA5818-G	Each MA5818-G supports a maximum of 256 POTS ports, 64 to 256 voice ports , 2 GPON or 2 XG-PON or 2 GE or 2 10GE ports

Enterprise Optical Network	Optical Access	**Model**	**ONU**
		W626E-10-G	OptiXstar W626E-G is the campus Gigabit Optical Access Wi-Fi 6 ONU, offering 1 POTS voice interface, 4 Gigabit Ethernet interfaces, 1USB interface and 2.4GHz and 5GHz Wi-Fi 6 technology.
		W826P-G	OptiXstar W826P-G, multi-service access device,1*XGSPON uplink (SC/UPC),4*GE+1*POTS+2*22.4GWIFI+2*25G WIFI+1*USB2.0,12VDC /POF, common configuration in China
		T823E-T-G	OptiXstar T823E-T-G multi-service access device,XGSPON BOB(SC/UPC)+ XGSPONSFP+,8GE(POE++)+2*RS485/RS232+1*DI+1*D0, supports 1588V2, DC, domestic common configuration
		P815E-X-E-G	OptiXstarP815E-X-E-G multi-service access device,1*XGSPON(BOB)+1*XGSPON(SFP+,24GE(POE++),2*XGE(POE++),2*XGE(optical), dual power supply, domestic general configuration - excluding uplink XGSPON(SFP+) optical module
		T823E-D-G	Access network -OptiXstarT823E-D-G multi-service access equipment,GPON SFP+,8GE(POE++)+2*RS485+2*RS232+2*DI+1*DO+1*USB2.0, DC, domestic general configuration -T823E-D
		P813E-G	Network side interface: 2*XGS-PONUser side interface: 8*GE PoE+
	Optical Transport	**Model**	**OSN 9800-G Series**
		OSN9800 M12-G	442mm (W) × 295mm (D) × 347.2mm (H) Maximum number of slots for inserting SPUs: 13 Maximum single-channel rate: 800Gbit/s (OTUC8) Line rate: 10Gbit/s, 100Gbit/s, 200Gbit/s, 300Gbit/s, 400Gbit/s, 600Gbit/s, 800Gbit/s
		OSN9800 M24-G	442mm (W) × 295mm (D) × 747.2mm (H) 1:1 mode: 12 large slots or 24 small slots 1:3 Mode: 10 large slots or 20 small slots Optical layer :1 to 20 dimensional ROADM electrical layer: 1:1 Mode 4.8Tbit/s OSUflex/ODUk 4.8Tbit /s Packet services 1.92Tbit/s VC-4 160Gbit /s VC-3/VC-12 1:3 mode 10Tbit /s OSUflex/ODUk 4Tbit /s Packet service 1.6Tbit /s VC-4 160Gbit /s VC-3/VC-12 Line rate : 1.25Gbit/s, 2.5Gbit/s, 10Gbit/s, 25Gbit/s, 100Gbit/s, 200Gbit/s, 300Gbit/s, 400Gbit/s, 600Gbit/s, 800Gbit/s Maximum single-channel rate: 800Gbit/s (OTUC8)
		Model	**E6600-G series**
		E6616-G	Sub-rack size (without mounting ears) : 221.5mm(H) × 442mm(W) × 220mm Maximum number of slots for inserting the business board: DC: 14 AC: 12 Line rate: 2.5 Gbit/s, 10 Gbit/s , 25 Gbit/s, 100 Gbit/s, 200 Gbit/s Power Supply: DC: -48V to -60V ; AC: 100V to 240V
		E6608-G	Sub-rack dimensions (excluding mounting ears) : 88.1mm(H) × 442mm(W) × 220mm(D) Maximum number of slots for inserting SPUs: DC: 6 AC: 4 Line rate: 2.5 Gbit/s, 10 Gbit/s , 25 Gbit/s, 100 Gbit/s, 200 Gbit/s Power Supply: DC: -48V to -60V ; AC: 100V to 240V
		E6608T-G	Subrack dimensions (excluding mounting ears) : 88.1mm(H) × 442mm(W) × 220mm(D) Maximum number of slots for inserting SPus: DC: 7 AC: 5 Line rate: 2.5 Gbit/s, 10 Gbit/s , 100 Gbit/s, 200 Gbit/s Power Supply: DC: -48V to -60V ; AC: 100V to 240V

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