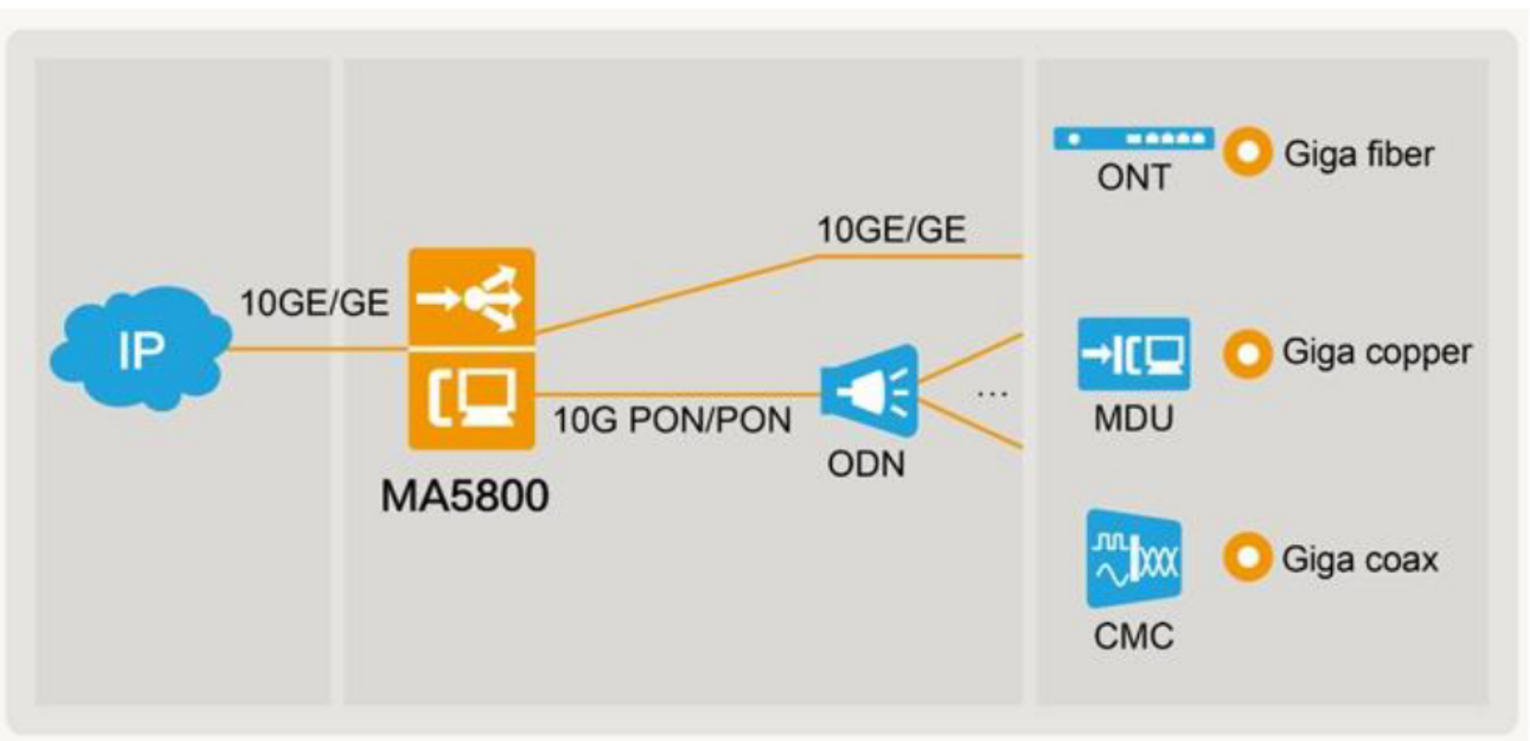
MA5800 X2

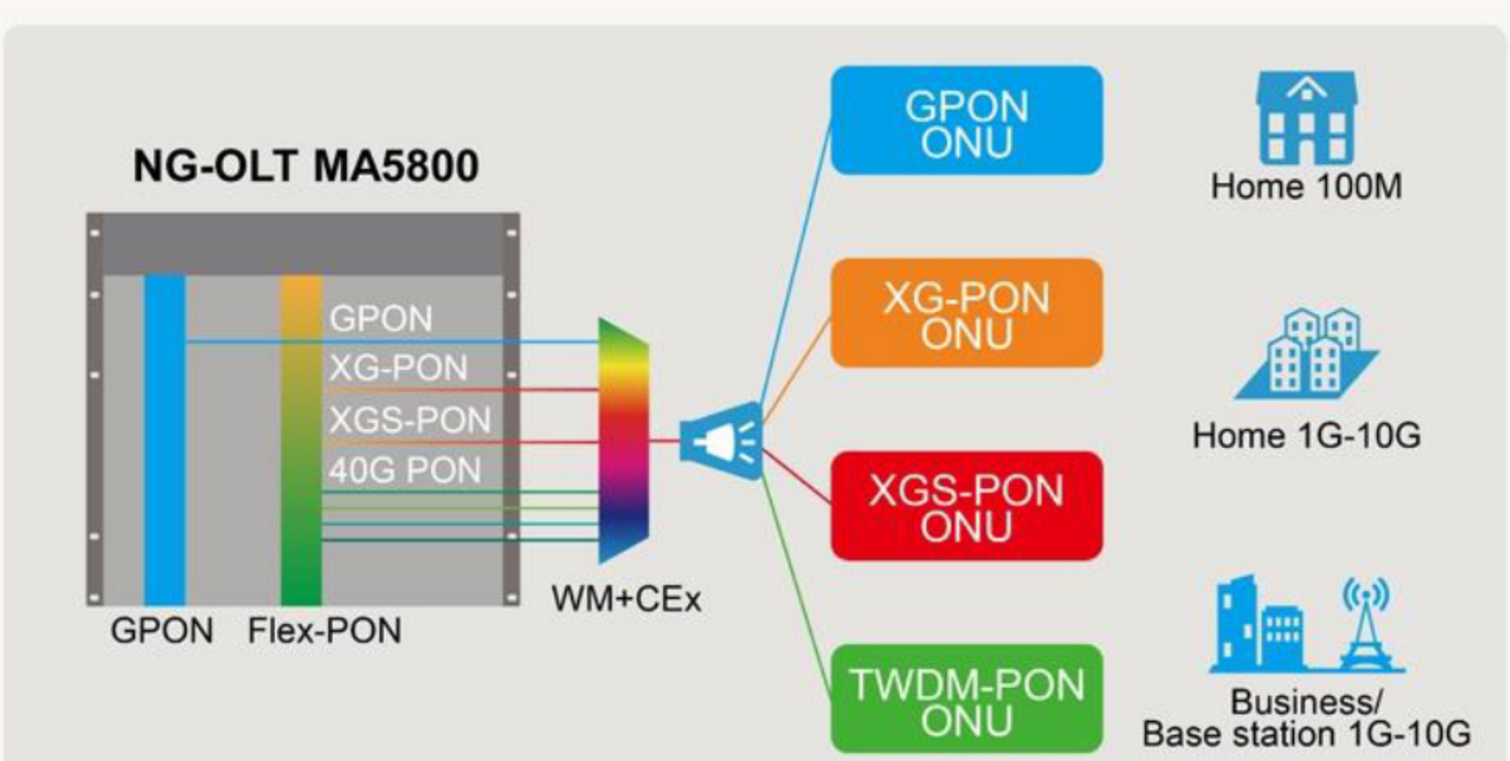
OPTICAL LINE TERMINAL

The industry’s first 40 Gbit/s-capacity Next-Generation Optical Line Terminal (NG-OLT). Huawei’s SmartAX MA5800 multiple-service access module employs a distributed architecture to support ultra-broadband, Fixed Mobile Convergence (FMC) services, and smart capabilities, such as SDN-based virtualization.

MA5800’s programmable Network Processor (NP) chip set accelerates the roll-out of new services, catering to the demand for differentiated services, including partitioning of wholesale and retail service providers.

- Each service slot offers 200 Gbit/s throughput capability, guaranteeing non-blocking access for high-density XG-PON and 40G-PON
- Each sub-rack supports up to 32K users with 100 Mbit/s of non-blocking bandwidth, allowing seamless 4K video viewing
- Full-service PON/P2P access for home, enterprise, and mobile backhaul creates a single optical network with FMC services





MA5800-X2	
Supported cabinet	N63E-22
Board configuration	• Control board slot: 3,4 • Service board or upstream interface board slot: 1-2 • Do not support universal interface board • Power board slot: 0
Dimensions (W x D x H) (mm)	• Excluding mounting ears: 442x268.7x88.1 • Including mounting ears of IEC standard: 482.6x268.7x88.1 • Including mounting ears of ETSI standard: 535x268.7x88.1
Maximum weight (including mounting brackets)	9.4 kg
Maximum input current	DC power supply: 20 A AC power supply: 8 A
Power supply mode	DC power support (dual for backup) AC power supply + battery for backup
Working voltage range	DC power supply: -38.4 V to -72 V AC power supply: 100 V to 240 V
Rated voltage	DC power supply: -48 V / -60 V AC power supply: 110 V / 220 V
Ambient temperature	-40°C to +65°C The MA5800 can start up at a lowest temperature of -25°C. NOTE: The +65°C temperature refers to the highest temperature measured at the air intake vent of service subrack.
Ambient humidity	5% RH to 95% RH
Atmospheric pressure	70 kPa to 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 varies with the altitude.
Switching capacity of the control board (load sharing mode)	480 Gbit/s
Maximum bandwidth per service slot (load sharing mode)	80 Gbit/s
System Layer 2 packet forwarding rate (load sharing mode)	714 Mpps
Maximum number of concurrent 4K video users	2000
Maximum number of MAC address	262143
Maximum number of IPv4 routing tables	65536
Maximum number of IPv6 routing tables	16384
Maximum number of ARP tables	32768
Switching/Forwarding delay	Short forwarding delay: The 100 Mbit/s Ethernet port sends the 64-byte Ethernet packets at a delay shorter than 20 μs.
Bit error rate (BER) in full load	A BER smaller than 10 e-7 for a port that transmits data in full load
System reliability specifications	System availability for the typical configuration: > 99.999% Mean time between failures (MTBF): about 45 years. NOTE: Due to different network environments and different boards used by devices, the preceding MTBF (45 years) of the MA5800 is only for reference. The average repair time for field replaceable units (FRUs) is about 2 hours. The preceding values are only for reference. For details, contact the related Huawei engineers.
GPON ports	32
XG-PON ports	32
XGS-PON ports	16
GE/FE ports	96
10GE ports	16
E1 ports	64