All-optical Access Platform OLT

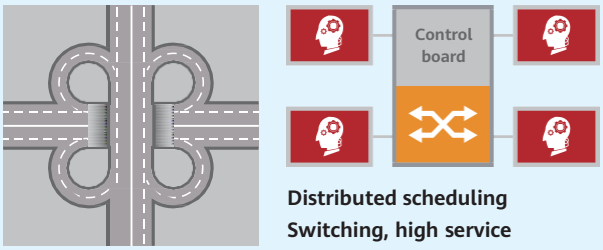
SmartAX MA5800

Best OLT Platform in the Gigabit Ultra-broadband Era

- The MA5800 series multi-service access device is the first OLT in the industry with distributed architecture. It provides a unified carrying platform for multiple services, such as broadband, wireless, video, and monitoring.
- The MA5800 provides GPON, XG-PON, XGS-PON, and 10GE/GE access, and supports FTTH, FTTD, FTTB, and FTTC network construction modes. This makes it applicable to home access, enterprise access, mobile backhaul, and Wi-Fi hotspot backhaul scenarios.

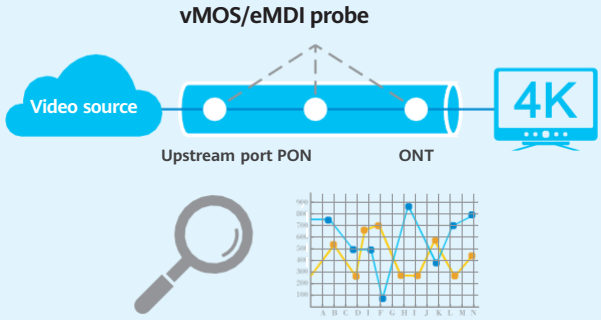
Distributed Architecture

Service processing, previously centered on the control board, is now distributed to every service board. The system switching capacity and performance are improved, with the throughput of a single slot reaching up to 200 Gbit/s. This ensures smooth services and supports faster HD video startup and channel zapping.



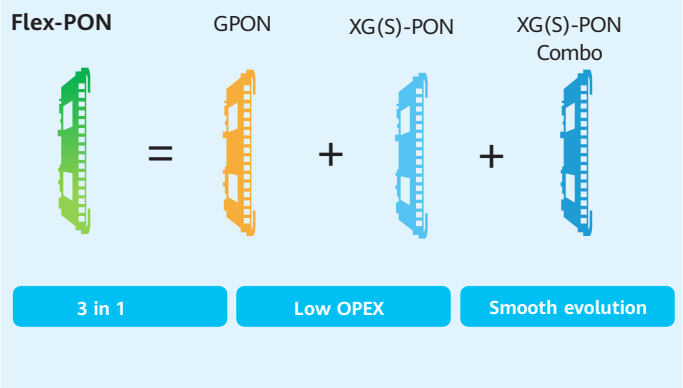
Superior 4K/8K Video Experience

Distributed large caches prevent burst video packet loss. Built-in vMOS/eMDI probes monitor video quality and locate fault remotely. Online PON board upgrade without video interruption brings a better user experience.



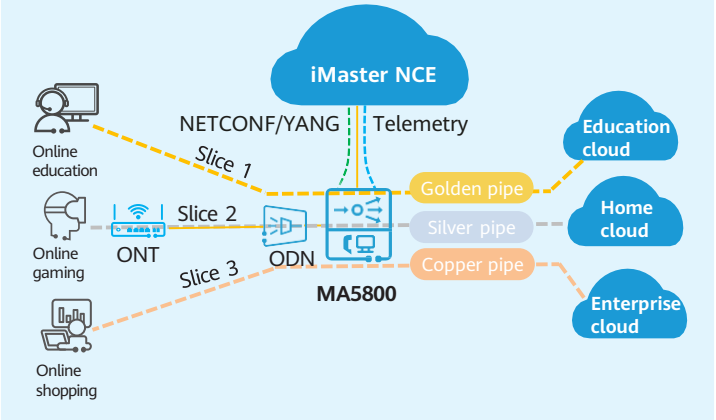
Flex-PON

A Flex-PON board supports GPON, XG(S)-PON, XGS-PON, and XG(S)-PON combo with the corresponding optical module, and reduces OPEX by smooth evolution without board replacement.



Slicing Technology

The E2E slicing technology provides differentiated bearing for services with different SLA requirements, achieving application-level bandwidth and latency commitment.



Product Specifications

Indicator \ Product	 MA5800-X17	 MA5800-X15	 MA5800-X7
H x W x D (mm)	486 x 493 x 287	486 x 442 x 287	263.9 x 442 x 268.7
Payload switching capacity of the control board	MPLA/MPLB：7 Tbit/s MPLG：7.3 Tbit/s		
Maximum payload bandwidth per service slot	200 Gbit/s		
Number of concurrent 4K video users	16000		8000
Power supply mode	DC power supply (dual for backup)		
Rated voltage	-48 V/-60 V		
Ambient temperature	-40 °C to +65 °C* (normal operation) Minimum startup temperature: -25 °C * +65°C indicates the temperature of the air intake vent of the service subrack.		
GPON/XG-PON/ XGS-PON ports	16 x 17 = 272	16 x 15 = 240	16 x 7 = 112
Upstream ports **(Dual control boards for upstream transmission)**	MPLA/MPLB：8 x 10GE/GE MPLG：2 x 100GE + 4 x 10GE/GE		