

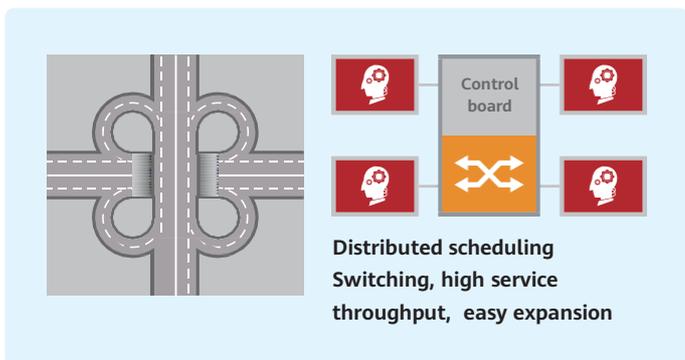
## SmartAX MA5800

### 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.

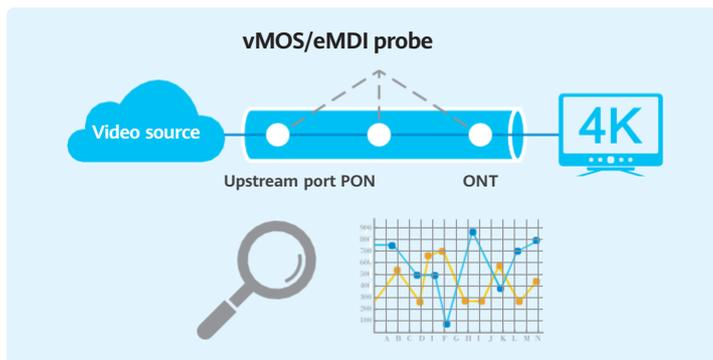
#### Distributed Architecture

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.



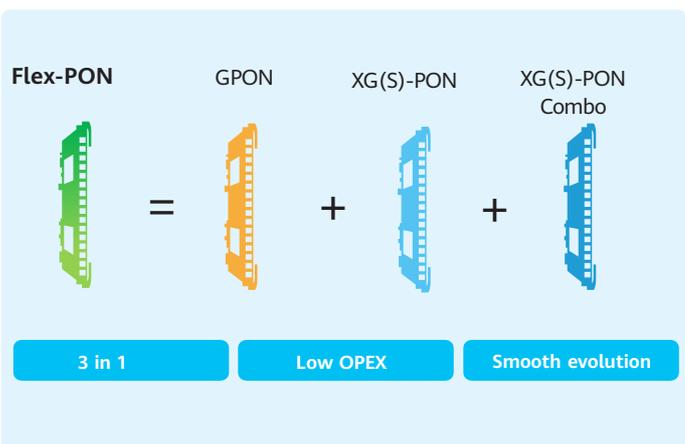
#### Superior 4K/8K Video Experience

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.



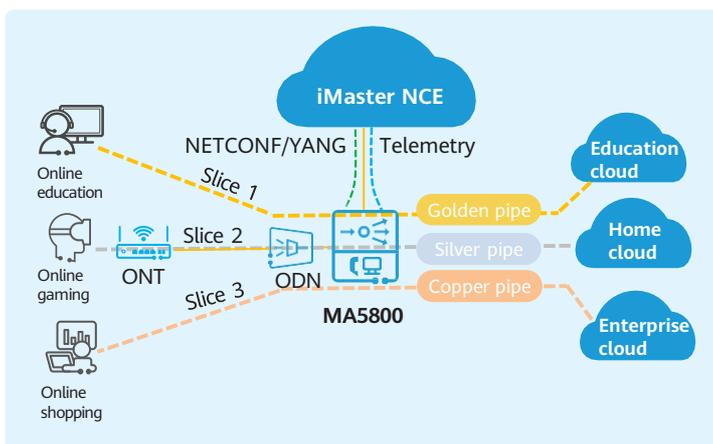
#### Flex-PON

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

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

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