

HUAWEI EA5800 NG-PON Intelligent Aggregation Device



一、 Product Description

SmartAX EA5800 Series

Full-service distributed Optical Line Terminal (OLT) - building green, ultra-broadband, and intelligent aggregation access networks.

The EA5800 series multi-service access devices feature distributed architecture and provide users with a unified transmission platform for broadband, wireless, video, and surveillance services. The EA5800 provides GPON, XG-PON, XGS-PON, GE, and 10 GE access, and supports multiple network construction modes, including POL, FTTH, FTTB, and FTTC. One optical network covers all services, simplifying the network architecture and reducing OPEX. The EA5800 is available in small, medium, and large specifications, making it suitable for every scenario.

二、 Product feature

◆ Distributed Architecture

Service processing is distributed from the control board to service boards, leading to higher switching capacity and system performance. A single slot can reach a throughput of 100 Gbit/s, satisfying the high demands of gigabit broadband and handling even the most bandwidth-hungry services like 4K videos.

◆ High Reliability

Type B/Type C dual-homing implements backup protection for remote disaster recovery through redundancy backup by configuring two control boards and two power boards. Multiple uplinks are also configured to provide a secure and reliable operating environment.

◆ Uninterrupted Service Upgrades

A distributed architecture separates the control and forwarding planes, allowing software upgrades without any service interruption. User complaints are reduced and service downtime is eliminated.

三、 Technical Parameters

Parameters	EA5800-X17	EA5800-X15	EA5800-X7	EA5800-X2
Board Configuration	Control board slots: 9, 10 Service board or upstream interface board slots: 1 to 8, 11 to 19 Power board slots: 20, 21	Control board slots: 8, 9 Service board or upstream interface board slots: 1 to 7, 10 to 17 Power board slots: 18, 19	Control board slots: 8, 9 Service board or upstream interface board slots: 1 to 7 Power board slots: 10, 11	Control board slots: 3, 4 Service board or upstream interface board slots: 1 to 2 Power board slot: 0
Working Voltage Range	-38.4V to -72V DC	-38.4V to -72V DC	-38.4V to -72V DC	DC power supply: -38.4V to -72V AC power supply: 100V to 240V
Rated voltage	-48V/-60V	-48V/-60V	-48V/-60V	DC power supply: -48V/-60V AC power supply: 110V/220V
Switching Capacity of the Control Board	3.6 Tbit/s	3.6 Tbit/s	3.6 Tbit/s	480 Gbit/s
Maximum Bandwidth per Service Slot	100 Gbit/s	100 Gbit/s	100 Gbit/s	80 Gbit/s
GPON Ports/ XG(S)-PON Ports	272	240	112	32
GE/FE Ports	816	720	336	96

四、 Product model series

EA5800-X17, GPON Ports/ XG(S)-PON Ports: 272

EA5800-X15, GPON Ports/ XG(S)-PON Ports: 240

EA5800-X7, GPON Ports/ XG(S)-PON Ports: 112

EA5800-X2, GPON Ports/ XG(S)-PON Ports: 32

