

## Overview

The MA5800-X17 is a HUAWEI GPON OLT, featuring 2x H901MPLA, 2x H901PILA and FAN modules. This high-performance OLT is designed to deliver a wide range of services and applications for broadband access networks, such as IPTV, VoIP, and high-speed internet access.



Fan tray	
18 Universal board	19 Service board
1	Service board
2	Service board
3	Service board
4	Service board
5	Service board
6	Service board
7	Service board
8	Service board
9	Control board
10	Control board
11	Service board
12	Service board
13	Service board
14	Service board
15	Service board
16	Service board
17	Service board
18	Service board
19	Service board
0 Power board	0 Power board

Slot Type	Slot No.	Total
Control board (SCU) slot	9,10	2
Power board slot	20,21	2
Universal interface board (GPIO) slot	0	1
Service board slot	1~8,11~19	17

## Quick Specification

Model	Huawei SmartAX MA5800-X17
Maximum weight(including mounting brackets)	35 kg
Dimensions (H x W x D)	493 mm x 287 mm x 486 mm

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Working voltage range	-38.4V DC to -72V DC
MPLS & PWE3	MPLS LDP, MPLS RSVP-TE, MPLS OAM, MPLS BGP IP VPN, tunnel protection switching, TDM/ETH PWE3, and PW protection switching
IPv6	IPv4/IPv6 dual stack, IPv6 L2 and L3 forwarding, and DHCPv6 relay
Multicast	IGMP v2/v3, IGMP proxy/snooping, MLD v1/v2, MLD Proxy/Snooping, and VLAN-based IPTV multicast

## Product Details:

### The Front Panel:



### Features Huawei SmartAX MA5800-X17 provides:

★ Distributed architecture

Huawei SmartAX MA5800 X17 OLT is the industry’s first distributed architecture OLT. The single-slot can support 16-port 10GPON non-blocking access. It can smoothly evolve to support 50G PON. It can realize forwarding functions such as MAC and IP address without replacing the main control board.

★ 4K/8K/VR video experience

Huawei SmartAX MA5800 X17 OLT can meet 16,000 homes and enjoy ultra-high-definition 4K/8K/VR video online. By using a distributed cache, with larger cache and video burst absorption capability, therefore help 4K/8K/VR video quick start or channel switching

★ Multi-service virtualization common platform

Huawei SmartAX MA5800 X17 OLT has the intelligence and virtualization capabilities to logically fragment devices and network resources, virtualize one OLT into multiple OLTs, and assign different virtual OLTs to different services such as homes, enterprise, Internet of Things and other multi-service intelligent operations.


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Get more information:

Do you have any question about SmartAX MA5800-X17?

 Contact us now via e-mail: [info@hi-network.com](mailto:info@hi-network.com)

## Specific Data Sheet:

Model	Huawei SmartAX MA5800-X17
Dimensions (W x D x H)	493 mm x 287 mm x 486 mm
Switching Capacity of the System	7 Tbit/s
Maximum Number of Ports in a Subrack	272 x GPON/EPON
	816 x GE/FE
	136 x 10G GPON/10G EPON
	136 x 10G GE
	544 x E1
Ambient Temperature	-40°C to 65°C*
	*: The MA5800 can start up at a lowest temperature of -25°C and run at -40°C. The 65°C temperature refers to the highest temperature measured at the air intake vent
Working Voltage Range	-38.4V DC to -72V DC
Layer 2 Features	VLAN + MAC forwarding, SVLAN + CVLAN forwarding, PPPoE+, and DHCP option82
Layer 3 Features	Static route, RIP/RIPng, OSPF/OSPFv3, IS-IS, BGP/BGP4+, ARP, DHCP relay, and VRF
MPLS & PWE3	MPLS LDP, MPLS RSVP-TE, MPLS OAM, MPLS BGP IP VPN, tunnel protection switching, TDM/ETH PWE3, and PW protection switching
IPv6	IPv4/IPv6 dual stack, IPv6 L2 and L3 forwarding, and DHCPv6 relay
Multicast	IGMP v2/v3, IGMP proxy/snooping, MLD v1/v2, MLD Proxy/Snooping, and VLAN-based IPTV multicast
QoS	Traffic classification, priority processing, trTCM-based traffic policing, WRED, traffic shaping, HqoS, PQ/WRR/PQ + WRR, and ACL
System Reliability	GPON type B/type C protection, 10G GPON type B protection, BFD, ERPS (G.8032), MSTP, intra-board and inter-board LAG, In-Service Software Upgrade (ISSU) of the control board, 2 control boards and 2 power boards for redundancy protection, in-service board fault detection and rectification, and service overload control



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