MA5821S Datasheet

The SmartAX MA5821S is a high-density access product for campuses launched by Huawei Technologies Co, Ltd. The MA5821S applies to fiber to the building (FTTB) or fiber to the curb (FTTC) network applications for providing data, and multicast services for community users.

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According to the difference of ports number, this MA5821S includes four configurations:

- 8*GE
- 16*GE
- 24*GE

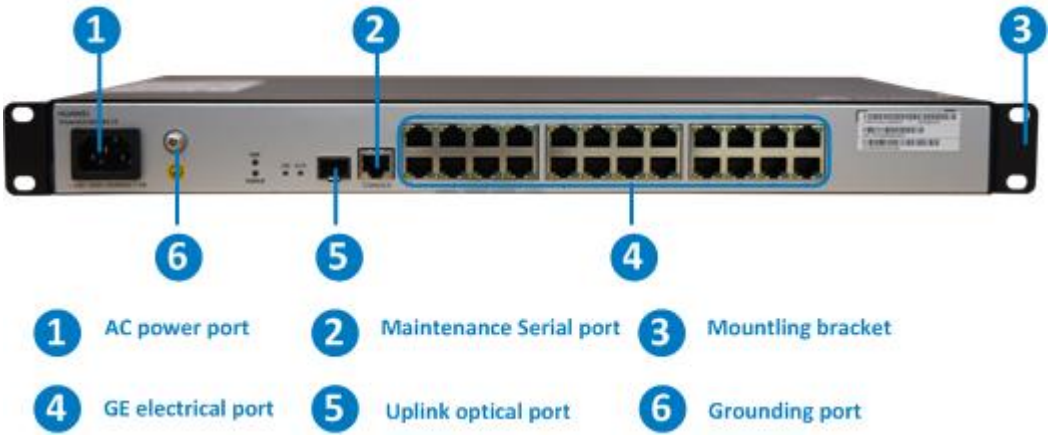
Product Highlights

- High-bandwidth access: XG-PON/XGS-PON uplink
- High port density: 8*GE/16*GE/24*GE
- Rich services: broadband/multicast/IPv6
- Comprehensive management and maintenance: Supports one-stop deployment and plug-and-play.

Ports

Take MA5821S(24*GE) as an example to introduce the port type as shown in Ports of the MA5821S (24*GE).

Ports of the MA5821S (24*GE)



Physical ports provided by the MA5821S

Port Type	Silk Screen	Description
AC power port	-	Connects to 110 V AC/220 V AC power.
Upstream optical port	-	Provides XG-PON/XGS-PON/GPON upstream transmission using an SFP uplink optical port.
GE electrical port	-	Provides Ethernet adaptive access rates of 10 Mbit/s, 100 Mbit/s and 1000 Mbit/s.
Maintenance Serial port	CONSOLE	Provides local and remote maintenance. Supports system configuration using tools, such as HyperTerminal, through command line interface (CLI).
Grounding port	-	Connects the device to the ground.

Device Configuration 1: 8*GE

Appearance and device parameters of the MA5821S(8*GE)

Appearance	
Dimensions (width x depth	442 mm x 220 mm x 43.6 mm (without the mounting brackets)

x height)	482.6 mm x 220 mm x 43.6 mm (with the mounting brackets)
Weight	2.96 kg
NNI	XG-PON/XGS-PON/GPON
UNI	8*GE
Ambient temperature	-40°C to 55°C
Ambient humidity	5% to 95%
Power Supply	100–240 V AC, 50 Hz/60 Hz
Maximum Input Current	1 A
Power consumption	Static power consumption: 21 W Maximum power consumption: 25 W
Protection Level	IP20
Surge Protection Level	AC power 6 kV, GE 4 kV

NOTE

- In the case of the static power consumption, all ports are not activated.
- In the case of the maximum power consumption, all the broadband ports are activated.

Device Configuration 2: 16*GE

Appearance and device parameters of the MA5821S(16*GE)

Appearance	
Dimensions (width x depth x height)	442 mm x 220 mm x 43.6 mm (without the mounting brackets) 482.6 mm x 220 mm x 43.6 mm (with the mounting brackets)
Weight	3.06 kg
NNI	XG-PON/XGS-PON/GPON
UNI	16*GE
Ambient temperature	-40°C to 55°C
Ambient humidity	5% to 95%
Power Supply	100–240 V AC, 50 Hz/60 Hz
Maximum Input Current	1 A
Power consumption	Static power consumption: 23 W Maximum power consumption: 30 W
Protection Level	IP20
Surge Protection Level	AC power 6 kV, GE 4 kV

NOTE

- In the case of the static power consumption, all ports are not activated.
- In the case of the maximum power consumption, all the broadband ports are activated.

Device Configuration 3: 24*GE

Appearance and device parameters of the MA5821S(24*GE)

Appearance	
Dimensions (width x depth x height)	442 mm x 220 mm x 43.6 mm (without the mounting brackets) 482.6 mm x 220 mm x 43.6 mm (with the mounting brackets)
Weight	3.22 kg
NNI	XG-PON/XGS-PON/GPON
UNI	24*GE
Ambient temperature	-40°C to 55°C
Ambient humidity	5% to 95%
Power Supply	100–240 V AC, 50 Hz/60 Hz
Maximum Input Current	1 A
Power consumption	Static power consumption: 24 W Maximum power consumption: 35 W
Protection Level	IP20
Surge Protection Level	AC power 6 kV, GE 4 kV

NOTE

- In the case of the static power consumption, all ports are not activated.
- In the case of the maximum power consumption, all the broadband ports are activated.

Primary Features

Upstream mode

- XG-PON
- XGS-PON
- GPON

Layer 2 management

- MAC address management
- Virtual local area network (VLAN) management
- Flow Bundle
- VLAN+MAC forwarding
- Transparent transmission of protocol packets

Multicast

- IGMP v2/v3
- IGMP Proxy
- IGMP Snooping
- MLD Proxy
- MLD Snooping
- Multicast CAC

QoS

- Priority processing
- Traffic management
- Traffic Policing
- Congestion management
- Access control list (ACL) policies

Management protocol

- SNMP V1
- SNMP V2C
- SNMP V3

Fault diagnosis

- Point-to-Point Protocol over Ethernet (PPPoE) dialup service emulation
- Dynamic Host Configuration Protocol (DHCP) dialup service emulation
- Multicast emulation

User security

- PITP
- DHCP Option82
- 802.1x authentication
- RAIO
- Anti-MAC address transfer
- Anti-MAC address spoofing
- Anti-IP address spoofing

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