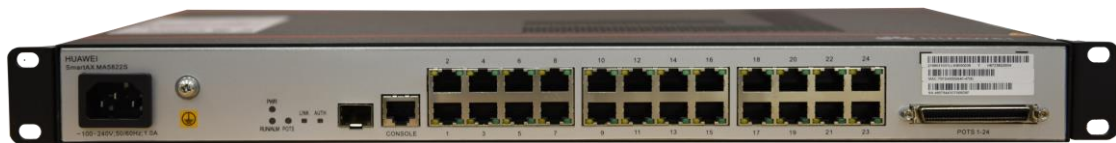


MA5822S Datasheet

The SmartAX MA5822S is a high-density access product for campuses launched by Huawei Technologies Co, Ltd. The MA5822S applies to fiber to the building (FTTB) or fiber to the curb (FTTC) network applications for providing voice, data, and multicast services for community users.



According to the difference of ports number, this MA5822S includes three configurations:

- 8*GE + 8*POTS
- 16*GE + 16*POTS
- 24*GE + 24*POTS

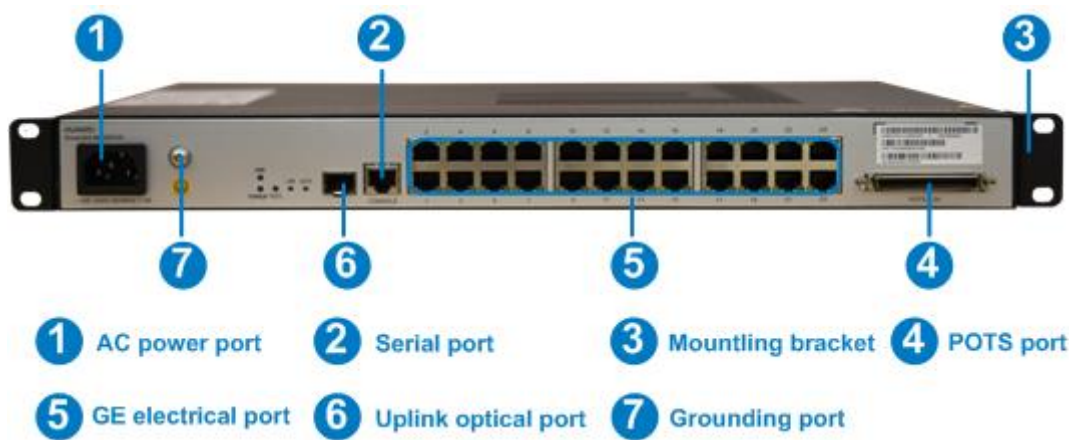
Product Highlights

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

Ports

Take MA5822S(24*GE+24*POTS) as an example to introduce the port type as shown in [Ports of the MA5822S](#).

Ports of the MA5822S



Physical ports provided by the MA5822S

Port Type	Silk Screen	Description
AC power port	-	Connects to 110 V AC/220 V AC power.
Serial port	CONSOLE	Provides local and remote maintenance. Supports system configuration using tools, such as HyperTerminal, through command line interface (CLI). Supports local device management through any service port.
POTS port	POTS 1–24	Supports POTS access and provides the VoIP, FoIP, and MoIP services.
GE electrical port	-	Provides Ethernet adaptive access rates of 10 Mbit/s, 100 Mbit/s and 1000 Mbit/s.
Upstream optical port	-	Provides XG-PON/XGS-PON/GPON upstream transmission using an SFP uplink optical port.
Grounding port	-	Connects the device to the ground.


The definition of the POTS port

X1 Pin	Port No.	X1 Pin	Port No.	Port figure	X1 Pin	Port No.	X1 Pin	Port No.
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X1 Pin	Port No.		X1 Pin	Port No.	Port figure	X1 Pin	Port No.		X1 Pin	Port No.	
68	24		50	8		34	-		16	16	
67			49				33			15	
66	23		48	7			32	-		14	15
65			47				31			13	
64	22		46	6			30	-		12	14
63			45				29			11	
62	21		44	5			28	-		10	13
61			43				27			9	
60	20		42	4			26	-		8	12
59			41				25			7	
58	19		40	3			24	-		6	11
57			39				23			5	
56	18		38	2			22	-		4	10
55			37				21			3	
54	17		36	1			20	-		2	9
53			35				19			1	

Device Configuration 1: 8*GE+8*POTS

Appearance and device parameters of the MA5822S(8*GE+8*POTS)

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	3.08 kg
NNI	XG-PON/XGS-PON/GPON
UNI	8*GE+8*POTS
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: 28 W Maximum power consumption: 38 W
Protection Level	IP20

Surge Protection Level


AC power 6 kV, GE 4 kV, POTS 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 and all the telephones connected to the voice ports are off-hook.

Device Configuration 2: 16*GE+16*POTS

Appearance and device parameters of the MA5822S(16*GE+16*POTS)


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	3.18 kg
NNI	XG-PON/XGS-PON/GPON
UNI	16*GE+16*POTS
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: 30 W Maximum power consumption: 49 W
Protection Level	IP20
Surge Protection Level	AC power 6 kV, GE 4 kV, POTS 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 and all the telephones connected to the voice ports are off-hook.

Device Configuration 3: 24*GE+24*POTS

Appearance and device parameters of the MA5822S(24*GE+24*POTS)

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	3.3 kg
NNI	XG-PON/XGS-PON/GPON
UNI	24*GE+24*POTS
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: 33 W Maximum power consumption: 62 W

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 and all the telephones connected to the voice ports are off-hook.

Primary Features

<p>Upstream mode</p> <ul style="list-style-type: none"> • XG-PON • XGS-PON • GPON <p>Multicast</p> <ul style="list-style-type: none"> • IGMP v2/v3 • IGMP Proxy • IGMP Snooping • MLD Proxy • MLD Snooping • Multicast CAC 	<p>Voice</p> <ul style="list-style-type: none"> • H.248 • SIP • Semi-permanent connections (SPCs) • Voice signal processing • Voice service test and maintenance • Reliability of voice services <p>Layer 2 management</p> <ul style="list-style-type: none"> • MAC address management • Virtual local area network (VLAN) management • Flow Bundle • VLAN+MAC forwarding • Transparent transmission of protocol packets 	<p>QoS</p> <ul style="list-style-type: none"> • Priority processing • Traffic management • Traffic Policing • Congestion management • Access control list (ACL) policies <p>Management protocol</p> <ul style="list-style-type: none"> • SNMP V1 • SNMP V2C • SNMP V3 	<p>Fault diagnosis</p> <ul style="list-style-type: none"> • Point-to-Point Protocol over Ethernet (PPPoE) dialup service emulation • Dynamic Host Configuration Protocol (DHCP) dialup service emulation • Multicast emulation <p>User security</p> <ul style="list-style-type: none"> • PITP • DHCP Option82 • 802.1x authentication • RAIO • Anti-MAC address transfer • Anti-MAC address spoofing • Anti-IP address spoofing
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