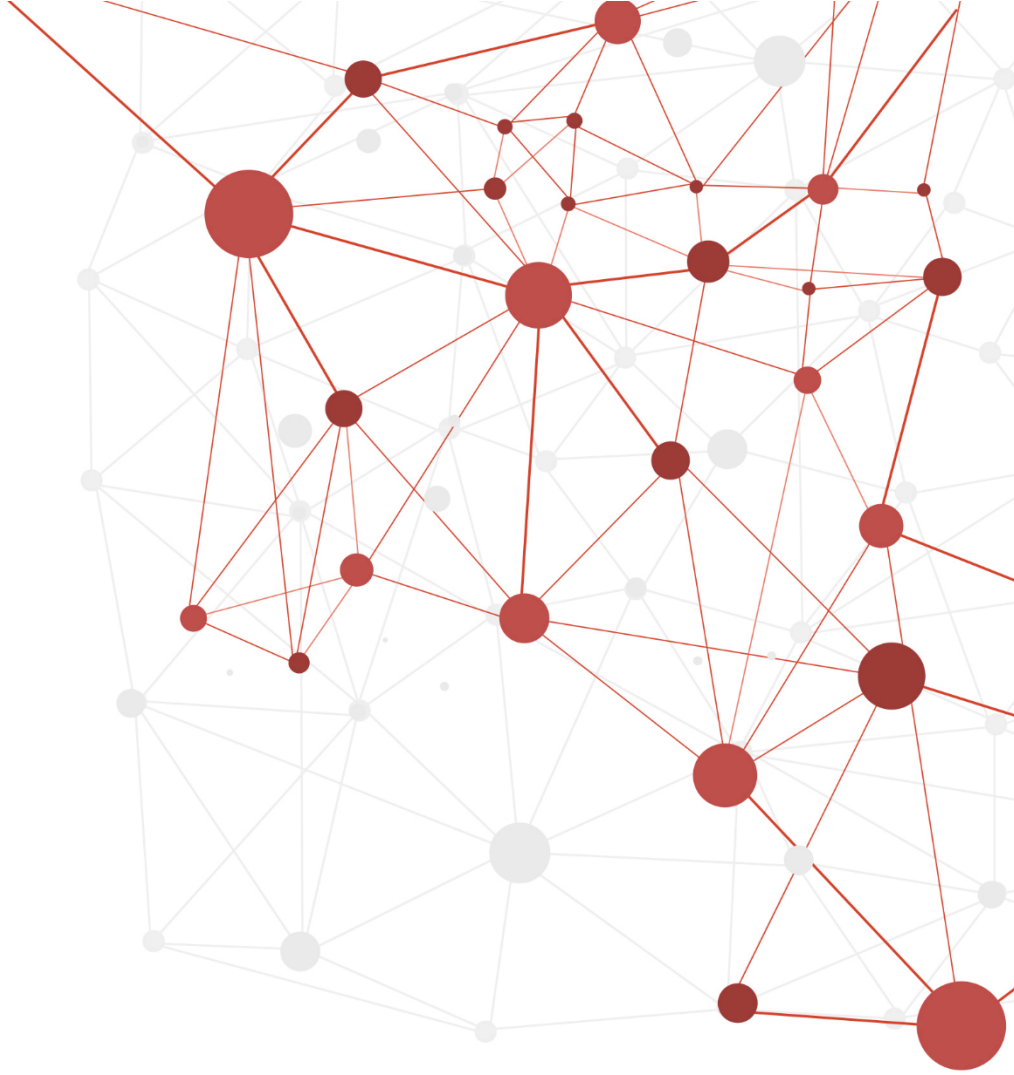

Huawei SmartAX MA5616

MDU and Boards Datasheet

CONTENT

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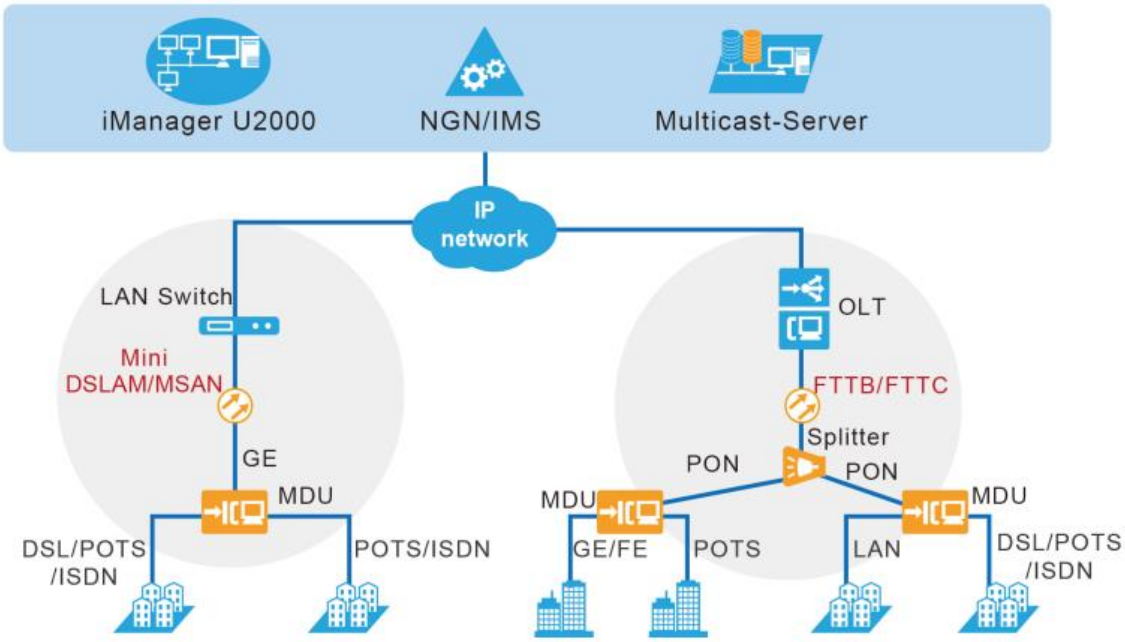
Overview

Huawei SmartAX MA5616 Multi-service Access Module (MA5616 for short) is a leading remote Multi-Dwelling Unit (MDU) product, which provides various types of ports on the passive optical network (PON) and 10G PON and meets multiple service requirement. It applies in fiber to the building (FTTB) and fiber to the curb (FTTC) scenarios. It can also function as a mini-digital subscriber line access multiplexer (DSLAM) or multiservice access node (MSAN).

Usage Scenario

The MA5616 provides two GPON or GE upstream ports and provides multiple service by supporting flexible board configurations. The MA5616 provides broadband, voice, and video services through ADSL2+/VDSL2/FE boards, voice services through POTS boards, leased line services through SHDSL or P2P boards.



Models & Appearance

Figure 1. MA5616:

Highlights

High-density Access

Supports the following users:

- A maximum of 256-channel POTS users

- A maximum of 256-channel ADSL2+ users

- A maximum of 256-channel VDSL2 users

- A maximum of 64 FE users

High-speed Access

- Vectoring cancels crosstalk between multi-pair VDSL lines.

- Vectoring increases VDSL2 line rates.

- SuperVector is supported

Flexible Service Configuration

- Improves access density.

- Reduces the equipment room space.

- Simplifies routing.

PSTN Network Reconstruction

- Provides bandwidth access during PSTN network reconstruction.

- Reduces CO equipment room rents for outdoor cabinet reconstruction.

Wide Applicability

- Supports the wide temperature range, low power consumption, and silent design.

- Can be installed in corridors, cabinets, indoors, and outdoors.

High Reliability

- Supports powerful surge protection, lowering the rate of failures caused by lightening.

- Supports the anticorrosion design, prolonging the device lifecycle.

Eco-friendly and Energy-saving

- Provides high-performance power supply, lowering the system power consumption.

- Supports intelligent fan speed adjustment, effectively lowering the power consumption at off-peak hours.

- Provides high-performance chipset, lowering the chip power consumption.

- Supports POTS short-loop design, effectively lowering the port power consumption at a short distance.

High-efficiency OAM

- Issues configurations remotely, supporting remote commissioning.

- Supports plug and pay (PnP).

- Supports remote acceptance, upgrade by patch loading, and fault locating.

Device Parameters

H × W × D	88.1 mm × 442 mm × 245 mm (without mounting ears)
Weight	≤4.8 kg (empty chassis); ≤9.1 kg (chassis in full configuration)
Ambient temperature	-40°C to +65°C; -25°C (start)
Ambient humidity	5% RH to 95% RH (non-condensing)
Power parameters	DC power supply: -38.4 V DC to -72 V DC AC power supply: 90V AC to 264 V AC
Backup power	Supports 48 V backup power; Supports lead-acid and Fe-lithium batteries.

Board Description

Huawei SmartAX MA5616 series provides board configuration. In the MA5616 chassis, slot 0 houses the control board, slots 1-4 service boards, and slot 5 power board.

<table>
<tr><td rowspan="4">Fan Tray</td><td rowspan="2">0. Control Board</td><td>1. Service Board</td></tr>
<tr><td>2. Service Board</td></tr>
<tr><td rowspan="2">5. Power Board</td><td>3. Service Board</td></tr>
<tr><td>4. Service Board</td></tr>
</table>

Control Boards

The control board converges upstream services and manages devices, and manages services for each interface module.

Differences Between Control Boards:

Parameter	**H831CCUB**	**H831CCUC**	**H831CCUE**
Supported daughter board	Upstream daughter board: - H831GP1A - H831GE1A Voice daughter board: - H836ASDA - H836ASDC - H836ASDM	Upstream daughter board: - H831UP2A - H831UP2C Voice daughter board: - H836ASDA l H836ASDC l H836ASDM	Upstream daughter board: - H831UP2A - H831UP2C - H831UP2AA - H831UP2CA - H833XP1A - H831GE4A Voice daughter board: - H836ASDA - H836ASDC - H836ASDM - H836ASDF
Upstream transmission mode	- GPON - EPON - GE	- GPON - EPON - GE	- GPON - EPON - GE - XG-PON
Port on the front panel (on the mother board)	- CONSOLE - ESC	- CON/ESC - ETH	- CON/ESC - ETH

Parameter	H831CCUB	H831CCUC	H831CCUE
	- ETH - ALARM - GE0	- CLK/TOD - ALARM - GE	- CLK/TOD - ALARM - GE
Uplink port (on the daughter board)	When an H831GP1A daughter board is configured: - GE0 (SFP port) - PON (SFF port) When an H831GE1A daughter board is configured: - GE0 (SFP port) - GE1 (SFP port)	When an H831UP2A or UP2C daughter board is configured: - 0 (SFP port) - 1 (SFP port)	When an H831UP2A or UP2C daughter board is configured: - 0 (SFP port) - 1 (SFP port) When an H833XP1A daughter board is configured: XG PON (SFP port) When an H831GE4A daughter board is configured: - GE0 (CSFP port or SFP port)/ XGE0 (SFP+ port) - GE1 (CSFP port or SFP port)/XGE1 (SFP+port) - GE2 (CSFP port) - GE3 (CSFP port)
Cascading port	One GE cascading port (optical or electrical) NOTE "optical and electrical" means that users can use either port GE0 on the daughter board or the GE0 electrical port on the panel for upstream transmission.	One GE cascading port (optical or electrical) NOTE "optical or electrical" means that: - Both ports 0 and 1 provided by a daughter board support both the GE optical and electrical modules to provide optical	One GE cascading port (optical or electrical) NOTE "optical or electrical" means that: - Both ports 0 and 1 provided by a daughter board support both the GE optical and electrical modules to provide optical

Parameter	H831CCUB	H831CCUC	H831CCUE
		and electrical ports. Users can select either of the ports to function as the GE optical port or electrical port. - Users can use either port 0 on the daughter board or the GE electrical port on the panel for upstream transmission.	and electrical ports. Users can select either of the ports to function as the GE optical port or electrical port. - Users can use either port 0 on the daughter board or the GE electrical port on the panel for upstream transmission.
Synchronous clock transferring	Not supported	Supported	Supported

VDSL2 Service Board

VDSL2 service boards provide the VDSL2 access service using broadband ports.

Differences between 64-channel VDSL2 service boards:

Specifications	H836VCPE	H83DVCPE	H83DVCPD
Applicable line	64-channel VDSL2 over POTS	64-channel VDSL2 over POTS	64-channel VDSL2
Vectoring	Not supported	Supported	Supported
G.INP	Supported		
VDSL2 PTM bonding	Not supported		
INM	Supported		
SELT	Supported		

MELT	Not supported		
Spectrum parameter profile	Supports VDSL2 8a, 8b, 8c, 8d, 12a, 12b, and 17a profiles.		
Annex type	- G.992.1 Annex A or B - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A/B		
Configuration mode	Supports TR129 and TR165	Supports TR129, TI, and TR165/TR252	Supports TR129, TI, and TR165/TR252
Embedded splitter	Not supported		
Temperature query and high-temperature alarm	Supported		
Automatic power shutdown in the event of a high temperature	Supported		
Connector	Delander 64-pin		

Differences between 48-channel VDSL2 service boards:

Specifications	**H83BVDMM**	**H83BVCMM**	**H83DVCMM**	**H83DSDMM**
Applicable line	48-channel VDSL2	48-channel VDSL2	48-channel VDSL2	48-channel SuperVector
Vectoring	Not supported	Supported	Supported	Supported
G.INP	Supported			
VDSL2 PTM bonding	Supported			

INM	Supported			
SELT	Supported			
MELT	Supported			
Spectrum parameter profile	Supports VDSL2 8a, 8b, 8c, 8d, 12a, 12b, and 17a profiles.			Supports VDSL2 8a, 8b, 8c, 8d, 12a, 12b, 17a, and 35b profiles.
Annex type	- G.992.1 Annex A - G.992.3 Annex A, B, L, or M - G.992.5 Annex A, B, or M - G.993.2 Annex A or B	- G.992.1 Annex A - G.992.3 Annex A, B, J, L, or M - G.992.5 Annex A, B, J, or M - G.993.2 Annex A or B	- G.992.1 Annex A - G.992.3 Annex A/B/J/L/M - G.992.5 Annex A/B/J/M - G.993.2 Annex A/B	- G.992.1 Annex A - G.992.3 Annex A/B/J/L/M - G.992.5 Annex A/B/J/M - G.993.2 Annex A/B
Configuration mode	Supports TR129, TI, and TR165/TR252			
Embedded splitter	Not supported			
Temperature query and high temperature alarm	Supported			
Automatic power shutdown in the event of a high temperature	Supported			
Connector	Champ 64-pin			

Differences between 32-channel VDSL2 service boards:

Specifications	H83BVDLE	H836VDLE	H83BVDLF	H83BVCLE	H83BVCLF	H836VCLE
Applicable line	32-channel VDSL2 over POTS	32-channel VDSL2 over POTS	32-channel VDSL2	32-channel VDSL2 over POTS	32-channel VDSL2	32-channel VDSL2 over POT
Vectoring	Not supported	Not supported	Not supported	Supported	Supported	Not supported
G.INP	Supported	Supported	Supported	Supported	Supported	Supported
VDSL2 PTM bonding	Supported					
INM	Supported					
SELT	Supported					
MELT	Not supported					
Spectrum parameter profile	Supports VDSL2 8a, 8b, 8c, 8d, 12a, 12b, and 17a profiles.					
Annex type	- G.992.1 Annex A - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A or B	- G.992.1 Annex A - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A or B	- G.992.1 Annex A - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A or B	- G.992.1 Annex A - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A or B	- G.992.1 Annex A - G.992.3 Annex A, B, J, L, or M - G.992.5 Annex A, B, J, or M - G.993.2 Annex A/B	- G.992.1 Annex A - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A

Configuration mode	Supports TR129, TI, and TR165/TR252.					Supports TR129 and TR165/ TR252
Embedded splitter	Supported (600-ohm impedance splitter)	Supported (600-ohm impedance splitter)	Not supported	Supported (600-ohm impedance splitter)	Not supported	Supported (600-ohm impedance splitter)
Temperature query and high temperature alarm	Supported					
Automatic power shutdown in the event of a high temperature	Supported					
Connector	Champ 64-pin					

Differences between 24-channel VDSL2 service boards:

Specifications	**H835VDSH**	**H835VDTH**	**H835VDSE**
Applicable line	24-channel VDSL2 over POTS	24-channel VDSL2 over ISDN	24-channel VDSL2 over POTS
Vectoring	Not supported		
G.INP	Supported		
VDSL2 PTM bonding	Supported		
INM	Supported		

SELT	Supported		
MELT	Not supported		
Spectrum parameter profile	Supports VDSL2 8a, 8b, 8c, 8d, 12a, 12b, and 17a profiles.		
Annex type	- G.992.1 Annex A - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A or B	- G.992.1 Annex B - G.992.3 Annex B - G.992.5 Annex B - G.993.2 Annex A or B	- G.992.1 Annex A - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A or B
Configuration mode	Supports TR129, TI, and TR165/TR252		
Embedded splitter	Not supported	Not supported	Supported (600-ohm impedance splitter)
Temperature query and high-temperature alarm	Supported		
Automatic power shutdown in the event of a high temperature	Supported		
Connector	Champ 64-pin		

Differences between 16-channel VDSL2 service boards:

Specifications	**H835VDGE**
Applicable line	16-channel VDSL2 over POTS
Vectoring	Not supported
G.INP	Supported
VDSL2 PTM bonding	Supported
INM	Supported
SELT	Supported
MELT	Not supported
Spectrum parameter profile	Supports VDSL2 8a, 8b, 8c, 8d, 12a, 12b, 17a, and 30a profiles.
Annex type	- G.992.1 Annex A - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A or B
Configuration mode	Supports TR129, TI, and TR165/TR252 [2].
Embedded splitter	Supported (600-ohm impedance splitter)
Temperature query and high-temperature alarm	Supported
Automatic power shutdown in the event of a high temperature	Supported
Connector	Champ 64-pin

ADSL2+ Service Board

ADSL2+ service boards provide ADSL2+ access services using the broadband ports.

Differences Between ADSL2+ Service Boards:

Specifications	**H83AADLE or H835ADLE**	**H836ADLE**	**H836ADPE**
Applicable line	32-channel ADSL2+ over POTS	32-channel ADSL2+ over POTS	64-channel ADSL2+ over POTS
Port	- PSTN - LINE		
G.INP	Supported	Not supported	Not supported
INM	Supported		
SELT	Supported		
MELT	Not supported		
Annex type	- G.992.1 Annex A - G.992.3 Annex A, L, or M (EU32-EU64) - G.992.5 Annex A or M (EU32-EU64)		
Configuration mode	Supports RFC 2662, RFC 4706, and TR165/TR252. (Users can switch a mode. To do so, log in to the MA5616 as a super user and run the switch ADSL mode to command in diagnose mode. The default configuration mode is RFC 2662. Considering the development trend, TR165 is recommended because it is more flexible than others.)		
Connector	Champ 64-pin	Champ 64-pin	Delander 64-pin
Embedded splitter	Supported (600-ohm impedance splitter)		

Temperature query and high temperature alarm	Supported
Automatic power shutdown in the event of a high temperature	Supported

Ethernet Service Board

Ethernet service boards are used for GE or FE signal access to implement the Ethernet service.

Differences Between Ethernet Service Boards:

Specifications	**H831EIUD**	**H831EIUA**
Number of ports	4 GE optical/electrical adaptive ports and 4 FE optical ports	16 FE electrical ports
Optical module	- GE optical port: SFP GE optical module - FE optical port: SFP FE optical module	Not supported
Port protection	Supported	Supported
Board shutdown for energy conservation	Supported	Supported
Synchronous Ethernet clock output	Supported	Not supported

Voice Service Board

Voice service boards support VoIP POTS, ISDN BRA, ISDN PRA and R2 services.

Specifications of POTS service boards:

Specifications	H838ASRB	H837ASPB/H838ASPB/H839ASPB
Connector	Champ 64-pin	Champ 64-pin
Number of ports	32	64
Codec	G.711A G.711U G.729 G.723.1 G.726	
POTS MELT	Supported	Supported
MELT precision	High	High
Automatic power shutdown in the event of a high temperature	Supported	Supported
Short loop	Supported	Supported
Polarity of wires a and b	a+b	a+b-
16/12 KC	Supported	Supported
Powering on/off using the CLI	Supported	Supported
Polarity reversal	Supported	Supported
Port current	20 mA, 25 mA, or 30 mA	20 mA, 25 mA, or 30 mA

Specifications of ISDN and R2 service boards

Specifications	H832DSLD	H831EDTB
Types of services	BRA	PRA or R2

Connector	Champ 64-pin	Champ 64-pin
Coding mode	2B1Q	E1 mode: HDB3 or AMI
Automatic power shutdown in the event of a high temperature	Supported	Supported

Combo Board

The combo board is a broadband and narrowband combo service board and provides three application modes: combo mode, broadband mode, and narrowband mode. In combo mode, the combo board supports both broadband and voice services.

Differences Between VDSL2 and POTS Combo Boards:

Specifications	**H83BCVLC or H83BCVLE**	**H836CCME**	**H83DCCME**	**H83DCSME**
VDSL2 Specifications Comparison				
Applicable line	VDSL2 and POTS combo	VDSL2 and POTS combo	VDSL2 and POTS combo	SuperVector and POTS Combo
Number of ports	32	48	48	48
Vectoring	Not supported	Not supported	Supported	Supported
G.INP	Supported	Supported	Supported	Supported
VDSL2 PTM bonding	Supported	Supported	Supported	Supported
INM	Supported	Supported	Supported	Supported
SELT	Supported	Supported	Supported	Supported

Spectrum parameter profile	Supports 8a, 8b, 8c, 8d, 12a, 12b, and 17a	Supports 8a, 8b, 8c, 8d, 12a, 12b, and 17a	Supports 8a, 8b, 8c, 8d, 12a, 12b, and 17a	Supports 8a, 8b, 8c, 8d, 12a, 12b, 17a, and 35b
Annex type	- G.992.1 Annex A - G.992.3 Annex A, L,or M - G.992.5 Annex A or M - G.993.2 Annex A or B	- G.992.1 Annex A - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A or B	- G.992.1 Annex A - G.992.3 Annex A, L, or M - G.992.5 Annex A or M - G.993.2 Annex A or B	- G.992.1 Annex A - G.992.3 Annex A/L/M - G.992.5 Annex A/M - G.993.2 Annex B
Configuration mode	Supports TR129, TI, and TR165/ TR252. (Users can switch a configuration mode. To do so, log in to the MA5616 as a super user and run the switch vdsl mode to command in diagnose mode.)	Supports TR129 and TR165/TR252. (Users can switch a configuration mode. To do so, log in to the MA5616 as a super user and run the switch vdsl mode to command in diagnose mode.)		
Embedded splitter	Supported	Supported	Supported	Supported
Temperature query and high temperature alarm	Supported	Supported	Supported	Supported
Automatic power shutdown in the event of a high temperature	Supported	Supported	Supported	Supported

Connector Champ 64-pin Champ 64-pin Champ 64-pin	Champ 64-pin			
POTS Specifications Comparison				
Connector	Champ 64-pin	Champ 64-pin	Champ 64-pin	Champ 64-pin
Number of DSP channels (G.711)	32	48	48	48
Codec	G.711A G.711U G.729 G.723.1 G.726			
POTS MELT	Supported	Supported	Supported	Supported
MELT precision	High	High	High	High
Automatic power shutdown in the event of a high temperature	Supported	Supported	Supported	Supported
Short loop	Supported	Supported	Supported	Supported
Polarity of wires a and b	a+ b-	a+ b-	a+ b-	a+ b-
16/12 KC	Not supported Not	Not supported	Not supported	Not supported
Powering on/off using the CLI	Supported	Supported	Supported	Supported
Polarity reversal	Supported	Supported	Supported	Supported

Power supply at a high voltage (for a long distance)	Not supported	Not supported	Not supported	Not supported
Port current	20 mA, 25 mA, or 30 mA	20 mA, 25 mA, or 30 mA	20 mA, 25 mA, or 30 mA	20 mA, 25 mA, or 30 mA

ADSL2+ and POTS Combo Board Specifications:

Specifications	**H835CALE**	**H836CALE**
ADSL2+ Specifications		
Applicable line	ADSL2+ and POTS combo	ADSL2+ and POTS combo
Number of ports	32	32
G.INP	Supported	Not supported
ADSL2+ bonding	Not supported	Not supported
INM	Supported	Not supported
SELT	Supported	Supported
MELT	Not supported	Not supported
Annex type	- G.992.1 Annex A - G.992.3 Annex A, L, or M (EU32-EU64) - G.992.5 Annex A or M (EU32-EU64)	- G.992.1 Annex A - G.992.3 Annex A, L, or M (EU32-EU64) - G.992.5 Annex A or M (EU32-EU64)
Configuration mode	Supports RFC 2662, RFC 4706, and TR165/TR252. (Users can switch a configuration mode. To do so, log in to the MA5616 as a super user	Supports RFC 2662, RFC 4706, and TR165/TR252. (Users can switch a configuration mode. To do so, log in to the MA5616 as a super user and run

	and run the switch adsl mode to command in diagnose mode.)	the switch adsl mode to command in diagnose mode.)
Connector	Champ 64-pin	Champ 64-pin
Embedded splitter	Supported	Supported
Temperature query and high-temperature alarm	Supported	Supported
Automatic power shutdown in the event of a high temperature	Supported	Supported
POTS Specifications		
Connector	Champ 64-pin	Champ 64-pin
Number of DSP channels (G.711)	32	32
Codec	G.711A G.711U G.729 G.723.1 G.726	
POTS MELT	Supported	Supported
MELT precision	High	High
Automatic power shutdown in the event of a high temperature	Supported	Supported
Short loop	Supported	Supported
Polarity of wires a and b	a+ b-	a+ b-

16/12 KC	Not supported	Supported
Powering on/off using the CLI	Supported	Supported
Polarity reversal	Supported	Supported
Power supply at a high voltage (for a long distance)	Not supported	Not supported
Port current	20 mA, 25 mA, or 30 mA	20 mA, 25 mA, or 30 mA

Power Board

Connected to the external AC or DC power supply, the power board converts the voltage of such power supply into a proper voltage using its power module and powers other boards in the chassis.

Differences between DC power boards:

Power Board	Power Supply Mode	Maximum Output Power (Unit: W)	Power Backup	Daughter board
H831PDIA	One -48 V DC input	200	Not supported	Not supported
H832PDIA	Two -48 V DC inputs	300	Not supported	Not supported
H832PDVA	One -48 V DC input	400	Not supported	Not supported
H832PDVAA	One -48 V DC input	400	Not supported	Supported (using the H836VPBA daughter board)
H832PDNAA	One -48 V DC input	400	Not supported	Supported (using the H836VPDA daughter board)

H832PDVSA	One -48 V DC input	500	Not supported	Supported (using the H836VPSHD daughter board)
H832PDVSB	One -48 V DC input	500	Not supported	Supported (using the H836VPSKD daughter board)
H832PDMSB	One -48 V DC input	500	Not supported	Supported (using the H836VPME daughter board)

Differences between AC power boards:

Power Board	Power Supply Mode	Maximum Output Power (Unit: W)	Power Backup	Daughter board
H831PAVDA	One 220 V AC or 110 V input	400	Supported, one battery (lead-acid battery or Fe-lithium battery) input for power backup	Supported (using the H836VPBA daughter board)
H831PAIA	One 220 V AC or 110 V input	200	Not supported	Not supported
H831PAIC	One 220 V AC or 110 V input	400	Not supported	Not supported
H831PAIB	One 220 V AC or 110 V input	200	Supported, one battery (lead-acid battery or Fe-lithium battery) input for power backup	Not supported

Basic Ordering Information

SKU	Description
MA5616	Huawei SmartAX MA5616 Multi-service Access Module, MDU, 2 GPON or GE upstream ports
H83AADLE	Huawei SmartAX MA5616 32-channel ADSL2+ over POTS service board
H83BCVLC	Huawei SmartAX MA5616 32-channel VDSL2 and POTS combo service board
H83BCVLE	Huawei SmartAX MA5616 32-channel VDSL2 and POTS combo service board, providing VDSL2 and POTS integrated access services
H83BVCLE	Huawei SmartAX MA5616 32-channel VDSL2 over POTS vectoring service board, supporting 600-ohm built-in splitters
H83BVCMM	Huawei SmartAX MA5616 48-channel VDSL2 service board without a built-in splitter
H83BVDLE	Huawei SmartAX MA5616 32-channel VDSL2 over POTS service board, supporting 600-ohm built-in splitter
H83DCCME	Huawei SmartAX MA5616 48-port VDSL2 & POTS combo board with the highest density in the industry, providing 48 channels of VDSL2 and POTS access services and supporting vectoring
H83DCSME	Huawei SmartAX MA5616 48-port SuperVector & POTS combo board with the highest density in the industry, providing 48 channels of SuperVector and POTS access services and supporting vectoring
H83DSDMM	Huawei SmartAX MA5616 48-channel super vector service board. It provides SuperVector access service, supporting metallic line testing (MELT)
H83DVCMM	Huawei SmartAX MA5616 48-channel VDSL2 service board, providing VDSL2 access service, supporting system-level vectoring function
H83DVCPD	Huawei SmartAX MA5616 64-channel VDSL2 over POTS service board, supporting vectoring

H83DVCPE	Huawei SmartAX MA5616 64-channel VDSL2 over POTS service board, supporting 600-ohm built-in splitters and vectoring
H831CCUE	Huawei SmartAX MA5616 super control unit board used for copper line access
H831EDTB	Huawei SmartAX MA5616 8-channel TDM SHDSL access services and 8-channel E1 and V.35 access services
H831PAIB	Huawei SmartAX MA5616 AC power board (with power backup)
H832DSLD	Huawei SmartAX MA5616 8-channel ISDN service board, providing the basic rate access (BRA) user access service
H832PDVA	Huawei SmartAX MA5616 DC power board, supplies -48 V DC power to the backplane or convert -48 V DC power to +3.3 V DC and +12 V DC and then supplies the voltages to the backplane.
H832PDVSA	Huawei SmartAX MA5616 DC power board, supplies -48 V DC power to the backplane or convert -48 V DC power to +3.3 V DC and +12 V DC and then supplies the voltages to the backplane
H832PDVSB	Huawei SmartAX MA5616 DC power board, supplies -48 V DC power to the backplane or convert -48 V DC power to +3.3 V DC and +12 V DC and then supplies the voltages to the backplane.
H832SHLH	Huawei SmartAX MA5616 16-channel SHDSL service board, providing SHDSL access services
H835ADLE	Huawei SmartAX MA5616 32-channel ADSL2+ over POTS service board, supporting 600-ohm built-in splitters
H835VDGE	Huawei SmartAX MA5616 16-channel VDSL2 over POTS service board
H835VDTH	Huawei SmartAX MA5616 24-channel VDSL2 over ISDN service board
H836ADLE	Huawei SmartAX MA5616 32-channel ADSL2+ over POTS service board, supporting 600-ohm built-in splitters

H836ADPE	Huawei SmartAX MA5616 a 64-channel ADSL2+ over POTS service board
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H836VCPE	Huawei SmartAX MA5616 64-channel VDSL2 over POTS service board, supporting 600-ohm built-in splitters
H838ASPB	Huawei SmartAX MA5616 64-channel VoIP subscriber board, providing 64-channels VoIP POTS services
H839ASPB	Huawei SmartAX MA5616 64-channel VoIP subscriber board, providing 64-channels VoIP POTS services

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