

Huawei SmartAX MA5603T & MA5608T

--- The Best Choice of FTTC/B Scenarios



HUAWEI TECHNOLOGIES CO., LTD.



Huawei SmartAX MA5603T & MA5608T

The Best Choice of FTTC/B Scenarios



MA5603T & MA5608T is defined as an FTTC/B equipment, developed on Huawei's third-generation unified platform. It can provide high-density voice and high bandwidth services, maximize the value of copper line under the scenario of FTTx construction.



MA5603T



MA5608T

MA5603T is 6U height, 300mm depth, flexible plug-in equipment, up to 6 service slots, providing POTS/ISDN/E1/G.SHDSL/ADSL2+/VDSL2 interfaces, to achieve full-service access. MA5603T can support flexible uplink, GE/10GE or GPON, to meet different networking requirements.

MA5603T can be installed in F01S300 outdoor cabinet.

MA5608T is 2U height, 300mm depth, flexible plug-in equipment, up to 2 service slots, providing POTS/ISDN/E1/G.SHDSL/ADSL2+/VDSL2 interfaces, to achieve full-service access. MA5608T can support flexible uplink, GE or 10GE, to meet different networking requirements.

MA5608T can be installed in F01S100 outdoor cabinet.

These outdoor cabinets have sealing, heat-dissipation, and dust-proof features for flexible deployment. The integrated outdoor cabinet can realize one-stop installation, quick service provision.

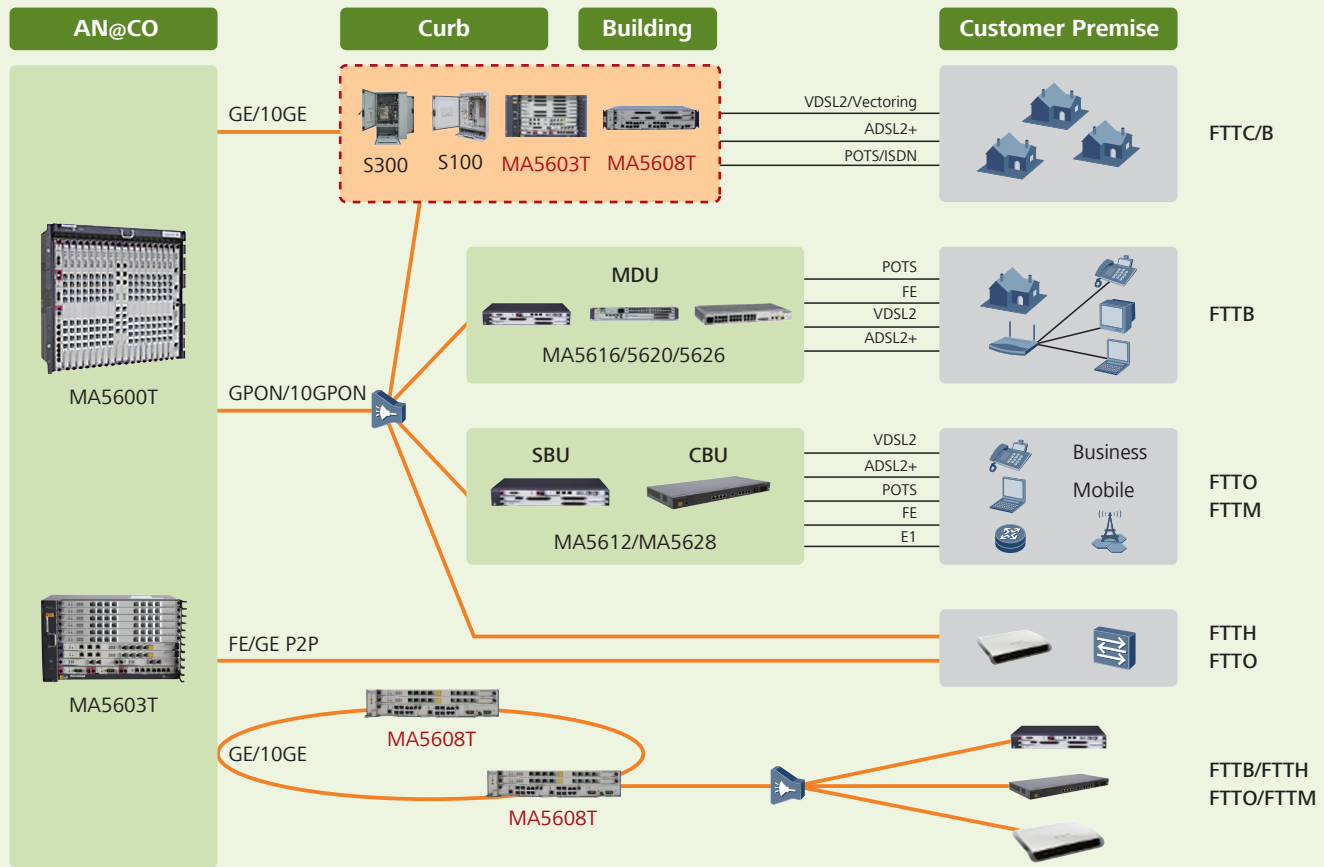


F01S300



F01S100

Typical Networking



Features

Unified Platform

- Using the same software and service boards as MA5600T
- Reducing spare parts, lower maintenance costs

Series Products for Various Scenarios

- MA5603T: 384POTS/384ADSL2+/384VDSL2, or 288POTS plus 288ADSL2+, or 288POTS plus 288VDSL2+
- MA5608T: 128POTS/128ADSL2+/128VDSL2, or 96POTS plus 96ADSL2+, or 96POTS plus 96VDSL2+
- Any slot, any service card

High Bandwidth

- MA5603T supports up to 384 lines System Level Vectoring for VDSL2 access, which is the highest density in industry
- ADSL2+ & VDSL2 two twisted-pairs bonding for double bandwidth
- 3.2G VDSL2, 50M non-blocking high bandwidth access, providing FTTH-like service experience

All Service Access

- Support E1 and G.SHDSL for enterprise leased line or PBX access
- IPTV can be launched for all users, up to 4k channels
- H-QoS support 5-level QoS guaranteeing SLA

High security and reliability

- Dual main control boards, dual power boards
- Multiple GE uplink, support STP/ RSTP/MSTP/RRPP ring protection, support BFD/ LACP
- Type B/Type C GPON line protection and GPON Type C dual-homing

Green Design

- Fully meet the CoC v4 power-conservation requirement of the European Commission
- Short-loop design of POTS card, 20% power consumption reduced
- Third generation chipsets, support the dynamic energy-saving, 30% energy saving of xDSL

Smooth Evolution

- 10GPON uplink can be supported in two years.
- MA5608T can support Board Level Vectoring and System Level Vectoring in two years.
- Just insert GPON board, MA5603T&MA5608T can be used as OLT

Technical Specifications

System Performance

- MA5603T: 1.5T bit/s backplane capacity, 48G/480G bit/s switch capacity, 20G bit/s slot bandwidth
- MA5608T: 720G bit/s backplane capacity, 256G bit/s switch capacity, 20G bit/s slot bandwidth
- BITS/E1/STM-1/Ethernet Synchronization/IEEE 1588v2/1PPS+TOD

POTS Line Card

- 64*port per card with G.711/G.723/G.729 coding/decoding
- One card with Analog, Polarity Reversal and 12/16KC together
- Short-loop design, support MELT test

VDSL2 Line Card

- 64* port per card over POTS with SPL or 64* port per card over POTS with MELT, without SPL
- 64*Port per card over ISDN with MELT

- Backward compatible to ADSL/ADSL2+
- Two twisted pairs bonding, G.INP Physical layer retransmission

ADSL2+/VDSL2 COMBO Line Card

- 48*port per card, three in one (POTS,xDSL,Splitter)
- Support MELT test
- G.INP Physical layer retransmission

ADSL2+ Line Card

- 64*port per card with Annex A,B, M and J, with SPL
- Two twisted pairs bonding
- G.INP Physical layer retransmission

E1 & TDM G.SHDSL Line Card

- 16*E1 and 16*TDM GSHDSL port per card
- E1 extension or PRI/R2 PBX access, N*64K service
- TDM PWE3 and MELT test

Dimensions

(Width × Depth × Height)

- MA5603T Shelf:
442mm × 283.2mm × 263.9mm
- MA5608T Shelf:
442mm × 233.5mm × 88.1mm
- F01S300:
830mm × 450mm × 1350mm
- F01S100:
720mm × 250.2mm × 830mm

Running Environment

- Working environment temperature: -40°C to +65°C

Power Supply

- MA5603T: -48 V/-60V DC powering via redundant power feeds, Working voltage range: -38.4 V to -72 V

- MA5608T supports both DC / AC power supply mode, and supports dual power protection and battery backup while using the AC power supply.

Copyright © Huawei Technologies Co., Ltd. 2012. All rights reserved.

General Disclaimer

THE INFORMATION IN THIS DOCUMENT MAY CONTAIN PREDICTIVE STATEMENTS INCLUDING, WITHOUT LIMITATION, STATEMENTS REGARDING THE FUTURE FINANCIAL AND OPERATING RESULTS, FUTURE PRODUCT PORTFOLIO, NEW TECHNOLOGY, ETC. THERE ARE A NUMBER OF FACTORS THAT COULD CAUSE ACTUAL RESULTS AND DEVELOPMENTS TO DIFFER MATERIALLY FROM THOSE EXPRESSED OR IMPLIED IN THE PREDICTIVE STATEMENTS. THEREFORE, SUCH INFORMATION IS PROVIDED FOR REFERENCE PURPOSE ONLY AND CONSTITUTES NEITHER AN OFFER NOR AN ACCEPTANCE. HUAWEI MAY CHANGE THE INFORMATION AT ANY TIME WITHOUT NOTICE.

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base
Bantian Longgang
Shenzhen 518129, P.R. China
Tel: +86-755-28780808
Version No.: M3-028708-20120828-C-1.0

www.huawei.com