SmartAX MA5620 and MA5626

The SmartAX MA5620 and MA5626 are industry-leading remote multi dwelling units (MDUs) launched by Huawei, which provide broadband services and IP voice services on the Fiber To The Building (FTTB) network for family users and small to medium enterprises. These series products can satisfy government and medium- and small-size enterprise requirements on wireless coverage, video monitoring. The MA5620 and MA5626 are box-type devices. Each of them provides two GPON or GE uplink ports and supports 8-channel, 16-channel, or 24-channel LAN access (LAN:POTS = 1:1). They feature broad temperature range, low power consumption, mute design, high stability, environment-friendlily and energy conservation, and can be used on workbenches and installed in corridors and cabinets, facilitating installation and maintenance.
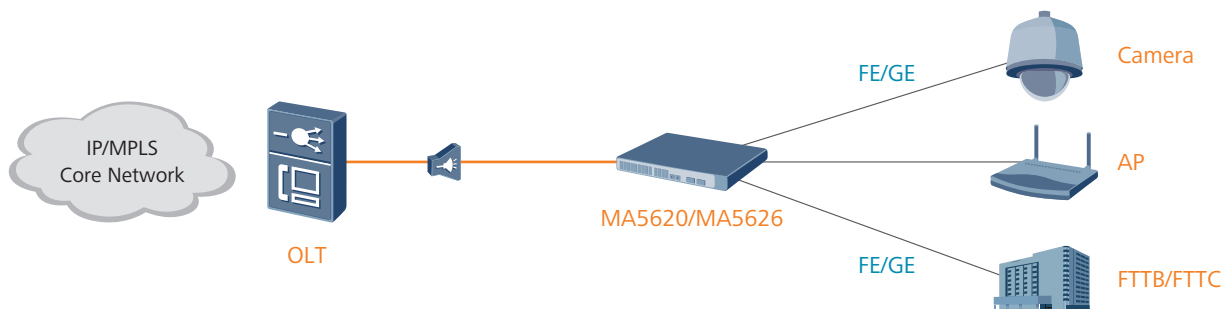
HUAWEI TECHNOLOGIES CO., LTD.

MA5620

MA5626

Application Scenarios

The MA5620 and MA5626 are used on an FTTB network and are installed in a network cabinet in a corridor. They connect to the optical line terminal (OLT) through GPON uplink ports and connect to PCs by using category-5 cables to provide high-bandwidth broadband, voice, and video services and connect to telephones by using twisted pairs to provide plain old telephone service (POTS) services. they connect to the camera or wireless Access Point (AP) through the FE port. In this manner, the MA5620, MA5626, provide transmission channels for videos and Wi-Fi Internet surfing services, meeting requirements for Wi-Fi coverage and video monitoring in diversified fields. Note that the MA5626 support Power over Ethernet (PoE) technology; therefore, issues related to AP or camera power can be resolved.

Highlights

- Automatic adaptation to GPON and GE modes: Each of them provides two uplink ports using the small form-factor pluggable (SFP) optical modules to meet different site requirements.
- PoE power supply: The MA5620, MA5626, and MA5669 support PoE and reverse PoE technologies, resolving issues related to power for wireless AP, camera, data collection terminal, or Optical Network Unit (ONU), saving investment and facilitating efficient deployment.
- Rich specifications: They fully meet requirements for pure LAN access service or voice service on an FTTB network, inherits traditional voice services, and supports migration of narrowband users.

- Strong QoS capability: Support bandwidth management based DBA, flexible service mapping and accurate service management base the flow. The strong quality of service (QoS) capability provides the user difference service experience.
- High performance IPTV services management: Strong service switching capability, packet forwarding capability, and high integration (data exchange and user management) enable them to have carrier-class multicast operation capability.
- Perfect voice features, supporting basic services (voice service, fax service, and modem service) and supplementary services (three-way calling, call waiting, call transfer, calling line identification presentation, and calling number restriction).
- High reliability: System reliability indicators are considered in the system, hardware, and software designs to ensure normal equipment operation. In addition, the MA5620, MA5626, and MA5669 support wide temperature ranges. Specifically, they support working temperatures ranging from –40°C to 65°C and even can be started at –25°C. Moreover, they can be protected against 6 kV lightning.
- Flexible installation mode: Based on the Huawei comprehensive unisite outdoor cabinet solution, the MA5620, MA5626, or MA5669 can be mounted on a wall or a pole in indoor or outdoor scenarios.
- Environment-friendly and energy conservation: Each of them uses a highly effective power supply system to reduce system power consumption. Each of them uses passive cooling without any fans to reduce device power consumption. Each of them uses POTS short-loop design to reduce port power consumption in short distances.

Key Features

Appearance	MA5620
GPON	ITU G.984-compliance 32 T-CONTs 1000 GEM ports
Broadband	4096 VLANs, supporting QinQ and stacking VLANs 4096 MAC addresses, supporting VMAC 802.1p, supporting PQ and WRR flow control, and ACL
Voice	SIP and H.248 POTS short-loop design
Multicast	A maximum of 1024 configurable multicast programs in the system A maximum of 48 multicast users A maximum of 16 concurrent multicast programs for each user
Security	PPPoE+ and DHCP option82 Static and dynamic MAC address binding Anti-MAC and anti-IP spoofing; source MAC address and IP address filtering Anti-DoS attack and firewall
Maintenance and management	SNMPv1, SNMPv2, and SNMPv3 Telnet and SSHv2 Remote and batch pre-deployment Remote upgrade and monitoring

Specifications

Appearance	MA5620	MA5626
Dimensions (Width x Depth x Height)	442mm x 220mm x 43.6mm	442mm x 220mm x 43.6mm
Network-Side Port	Available configuration modes: • 2 x GPON + 2 x GE (optical) • 1 x GE (optical) + 1 x GPON	Available configuration modes: • 2 x GPON • 2 x GE (optical) • 1 x GE (optical) + 1 x GPON
User-Side Port	Available configurations: • 24 x FE+24 x POTS • 16 x FE+16 x POTS • 8 x FE + 8 x POTS	Available configurations: • 16/24*FE • 8/16/24*FE (POE) • 4*GE+4*FE (POE) • 8*FE (reverse POE)
Working Temperature	-40°C to 65°C; -25°C in case of equipment starting	-40°C to 65°C; -25°C in case of equipment starting
Ambient Humidity	5% Relative Humidity (RH) to 95% RH, non-condensing	5% RH to 95% RH, non-condensing
Lightning Protection Capability	LAN: 6 kV; POTS: 4 kV	LAN: 6 kV
Power Supply	AC: 220 V/110 V	AC: 220 V/110 V
Weight	24 ports, 2.3 kg. 16 ports, 2.29 kg. 8 ports, 2.28 kg.	24 ports, 1.92 kg. 16 ports, 1.91 kg. 8 ports, 1.15 kg.

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