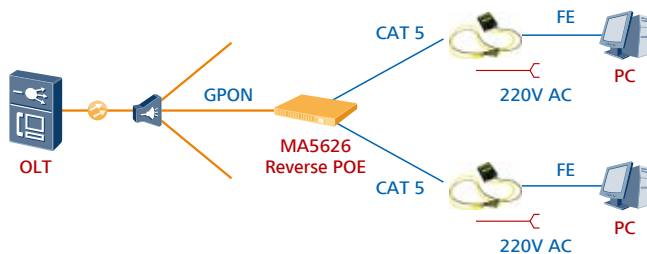# SmartAX MA5626 Reverse PoE

The SmartAX MA5626 Reverse Power over Ethernet (MA5626 Reverse PoE for short) is an industry-leading remote multi dwelling unit (MDU) launched by Huawei, which, on a passive optical network (PON), facilitates power supply for Fiber To The Building (FTTB) installation in corridors, providing broadband network access for families and small to medium enterprises by using category-5 cables routed in the building. The MA5626 Reverse PoE is a box-type device measuring 1-U high and 11-inch wide, providing two GPON or GE uplink ports and eight LAN user ports, and is powered by the power sourcing equipment (PSE) deployed in users' residences. The MA5626 Reverse PoE is applied in scenarios where there is no alternating current (AC) power supply in corridors, featuring easy installation and maintenance, broad temperature range, low power consumption, mute design, high stability, environment-friendlily, and energy conservation.

Appearance

MA5626 Reverse PoE

Highlights

- Application in FTTB construction scenarios where there is no power supply in corridors: Powered by the PSE in users' residences, the MA5626 Reverse PoE facilitates power supply for FTTB installation without the need to install an ammeter, reducing cost and dependence on power supply equipment compatibility and achieving minimum project input and fast deployment.
- Easy installation: built-in jumpers and only one network cable required.
- Energy efficiency: supplying power in load sharing mode and powering off when not providing services.
- Automatic adaptation to GE and GPON modes: The two uplink ports using the small form-factor pluggable (SFP) optical modules can automatically adapt to GE and GPON modes, meeting different networking requirements.
- Plug-and-play (PnP) service provisioning: The MA5626 Reverse POE allows remote issuing of configuration. A management channel and service channel are created after the MA5626 Reverse PoE is powered on and registers successfully. Manual onsite configuration is not required.
- Efficient management and maintenance: free of field software commissioning, remote acceptance, remote upgrade and patch installation, and remote fault location.
- Carrier-class reliability design: The system reliability is taken into consideration in hardware, software, and system design to ensure the normal operation of the equipment.
- When the power is off, the MA5626 Reverse PoE is able to determine whether the power cutoff is caused by power supply interruption or by cable disconnection, notifying the operator of the actual situation with proper alarms.

Usage Scenario

Applied in FTTB construction scenarios and placed in network cabinets in corridors, the MA5626 Reverse PoE connects to the optical line terminal (OLT) by using gigabit-capable passive optical network (GPON) ports and to user PCs by using category-5 cables, providing broadband, voice, and video services.

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Features

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
Multicast	IGMPv2 and IGMPv3
	IGMP proxy and IGMP snooping
	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

Dimensions (H×W×D)	43.6mm×250mm×220mm
Network-side port	Two uplink ports using the SFP optical modules can automatically adapt to GE and GPON modes. The two uplink ports can be configured as follows: • 2×GPON • 2×GE (optical) • 1×GE (optical) + 1×GPON
User-side port	8×FE (electrical)
Operating temperature	-40℃ to 55℃; startup at -25℃
Humidity	5% to 95% (non-condensing)
Heat dissipation mode	No fans; passive cooling
Power supply	Reverse PoE
Lightning protection capability	6kV
Power consumption	14.5W
Weight	1.06kg