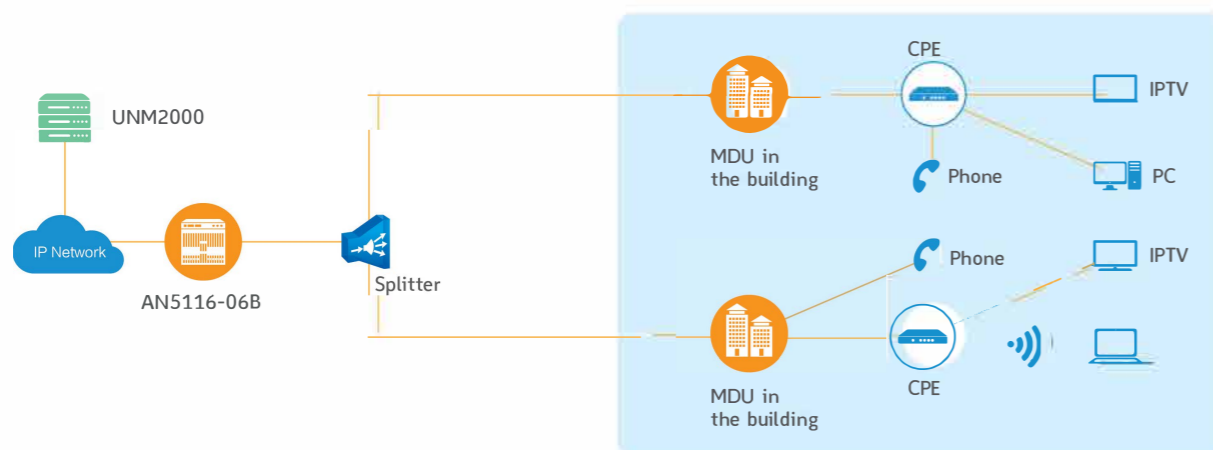# MDU Product

Introduction

AN5506 series are industry-leading remote Multi Dwelling Units (MDUs), which provide broadband services and voice over IP service on fiber to the building (FTTB) network in both GPON. AN5506 series are box-type devices with 8/16/24-channel LAN ports or LAN+POTS, which are low power consumption, passive cooling design, high stability, eco-friendly and low energy consumption for family users as well as small to medium-scale enterprises with easy installation and maintenance.

Typical Application Scenarios

Key Features and Benefits

Meet diverse FTTB network requirements with rich specifications
High performance IPTV service management such as strong service switching& packet forwarding capability. It also enables high integration with the feature of carrier-class multicast operation
Perfect voice features support basic services(voice/fax/modem) and supplementary services (three-way calling, call-waiting, call transfer and calling restriction)
Efficient management and maintenance supporting remote opening and remote patch upgrade facility and remote fault location
Passive cooling without any fans help to reduce power consumption and noise
Support two voice-channel wiring models of hybrid I/O in different situations
Carrier-class reliability under consideration of flexible and reliable indexes in hardware of software with systems to ensure the operation of equipment

MDU Product Specification

Type	AN5506-06-EG	AN5506-09	AN5506-07	AN5506-10
Diagram				
Dimensions (W*D*H)	440mm×190mm ×44mm	440mm×(190/225)mm ×44mm	440mm×(190/225)mm ×44mm	440mm×(190/225)mm ×44mm
User-side Interface	4GE+8E1	8FE/8FE+8POTS	16FE/16FE+16POTS	24FE/24FE+24POTS
Power Supply	AC 220V DC -48V	AC 220V DC -48V	AC: 220V DC -48V	AC: 220V DC -48V
Power Consumption	< 25W	< 25W	< 35W	< 40W
Lightning Prevention Capability	Power module 6KV User-side Interface:4KV	Power module 6KV User-side Interface: 4KV	Power module:6KV User-side Interface: 4KV	Power module:6KV User-side Interface: 4KV
Operating Temperature	-30℃ ~55℃	-30℃ ~55℃	-30℃ ~55℃	-30℃ ~55℃
Ambient humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	10% to 90%, non-condensing	10% to 90%, non-condensing

MDU Product Features

GPON/XG-PON1	ITU G.984-compliance/ITU G.987-compliance
Broadband	4K VLAN, supporting QinQ, VLAN 1 1:and N:1 translation 16K MAC addresses Dual management modes based on DBA technology ACL rules filtering and unknown unicast, broadcast and multicast packets suppression
Multicast	IGMPv2 and IGMPv3 IGMP proxy and Snooping A maximum of 1024 configurable multicast
Security	PPPoE+ and DHCP option82 Triple churning algorithm to downstream data encryption Supports MAC/IP address filtering and binding functions Anti-DOS attack and firewall Line loopback detection
Maintenanceand management	Remote upgrade and monitoring