AT-MMC6006

Extended Ethernet™ over VDSL2

MMC6006
Subscriber/provider unit

Extended Ethernet Operation

Used as a pair, two Allied Telesis MMC6006 units provide up to 300Mpbs total bandwidth over coax cabling, at distances up to 3 km, to provide the ideal solution for data over coax. Standard Ethernet operation is preserved end-to-end, retaining VLAN tags and Ethernet MAC information across the link, while higher layer protocols are passed transparently.

MTU and MDU Applications

Multi-Tenant Units (MTU) such as offices and campuses, and Multiple Dwelling Units (MDU) such as hotels and apartments are the ideal environments for MMC6006 network extenders. Private coax wiring can be used to provide broadband access to Internet services, including video streaming, gaming and e-mail. There is no need to rewire premises with expensive cabling to provide broadband Ethernet services.

Digital Video over Coax

Digital cameras running on IP networks offer many benefits in comparison to analog equipment, such as high definition and software image analysis.

However, the cost of laying new Cat 5e cable for network devices can be prohibitive. The MMC6006 has the solution—you can use existing coax cable for the video signal.

In fact, the existing coax cable can be a better way to transmit digital data than UTP. Coax cable has a higher bandwidth, with lower noise and signal loss, meaning it can carry more data, over greater distances.

Standalone and Rack-Mount

The Allied Telesis MMC6006 is available as a compact standalone unit for installation at the central office, or alternatively, it can be rack-mounted in a standard Allied Telesis MMCR-18 chassis. Capable of housing up to eighteen units in one compact chassis, the unit features a redundant power supply, simplifying wiring and minimizing space requirements.

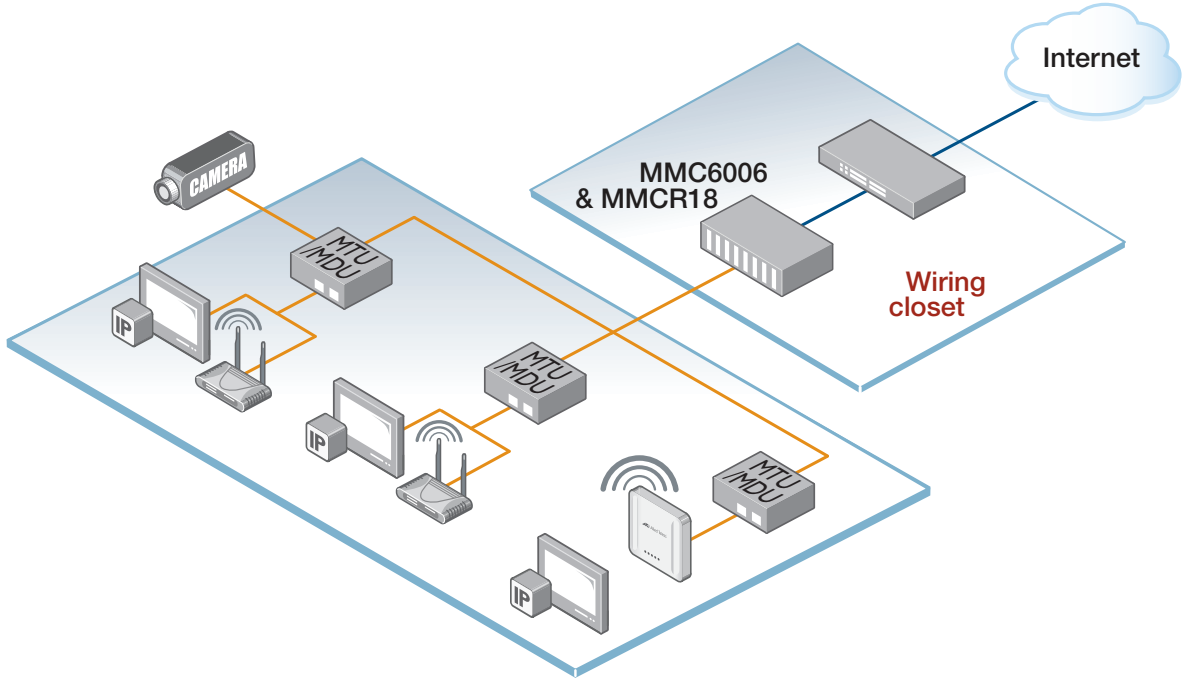
Plug and Play Operation

Simply connect to the RJ-45 Ethernet port and the unit will automatically auto-sense and configure for 10/100/1000T, as well as full or half-duplex Ethernet operation.

Key Features

- Up to 300Mbps total bandwidth VDSL operation up to 3 km
- Can function as a subscriber or provider at the flick of a switch
- Supports both fast mode and interleave mode
- 10/100/1000 Ethernet port
- Auto MDI/MDI-X
- System, Ethernet and VDSL LEDs
- Configurable via DIP switches
- Standalone and rack-mountable
- Wall-mountable using optional AT-WLMT bracket
- Compact form factor
- Both symmetrical and asymmetrical operation
- Metal chassis
- Locking power connector

Key Solution



Technical Specifications

Product Specifications

DMT modulation
1MB flash
Half-/full-duplex
Auto-negotiation
Auto MDI/MDI-X
BNC VDSL2 port
RJ45 Ethernet port

Speed/Distance

Total bandwidth up to 300Mbps
Distance up to 3 km or 2 miles

Front Panel Indicators

System
Ethernet link/activity
VDSL link
Ethernet duplex/col

Interface Connections

VDSL interface	BNC
Ethernet interface	RJ45
Management	5-pin DIP switch

Physical Characteristics VDSL Interface

Dimensions (W × D × H):	50.8 mm x 99.1 mm x 20.3 mm (2.0 in x 3.9 in x 0.8 in)
Weight	0.2 kg (0.4 lb)
Mounting	Tabletop, rack, and wall mount (requires AT-MMCR18 chassis)

Environmental Specifications

Operating Temperature	0 °C to 50 °C (32°F to 122°F)
Storage Temperature	-30° C to 70° C (-22° F to 158° F)
Operating Humidity	5% to 90% non-condensing
Storage Humidity	5% to 95% non-condensing
Operating Altitude Range	Up to 3,000 m (9,843 ft)

Power Characteristics

External power supply	120V AC, 60Hz (US model) 240V AC, 50Hz (European models)
Input supply voltage	12vDC
Max current	300mA
Typical Power consumption	2W

Country of Origin

China

Approvals

UL 1950
CSA
EN 55022 class B
EN 60950 (TUV)
EN 50082-1

Ordering Information

AT-MMC6006-60
Subscriber/provider unit with Level 6 multi-country power adapter.

North America Headquarters | 19800 North Creek Parkway | Suite 100 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895
Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830
EMEA & CSA Operations | Incheonweg 7 | 1437 EK Rozenburg | The Netherlands | T: +31 20 7950020 | F: +31 20 7950021

alliedtelesis.com

617-000613 RevA