

# AT-MMC6005

## Extended Ethernet™ over VDSL2

### AT-MMC6005

Subscriber/provider unit

#### Extended Ethernet Operation

Used as a pair, the Allied Telesis AT-MMC6005 provides up to 150Mbps of bidirectional data transfer, while supporting POTS\* service over phone-grade, twisted-pair wiring (CAT1, 2, 3) at distances up to 3 km or 10,000 feet. These units are the ideal solution for providing data on “last-mile” twisted-pair circuits or existing in-building wiring. 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. 10/100Mbps Ethernet operation is supported simultaneously with POTS\*, ISDN or PBX signaling, without disruption.

#### MTU and MDU Applications

Multi-Tenant Units (MTU) such as offices and campuses, and Multiple Dwelling Units (MDU) such as hotels and apartments are an ideal environment for AT-MMC6005 network extenders, where private

phone-grade wiring can be used to provide broadband access to Internet services including video streaming, World Wide Web, gaming and e-mail. There is no need to re-wire premises with expensive CAT5 or fiber to provide broadband Ethernet services.

#### Standalone and Rack-mount

The Allied Telesis AT-MMC6005 provider unit 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 AT-MMCR-18 chassis. Capable of housing up to eighteen units in one compact chassis, it features a redundant power supply, simplifying wiring and minimizing space requirements.

#### Plug and Play Operation

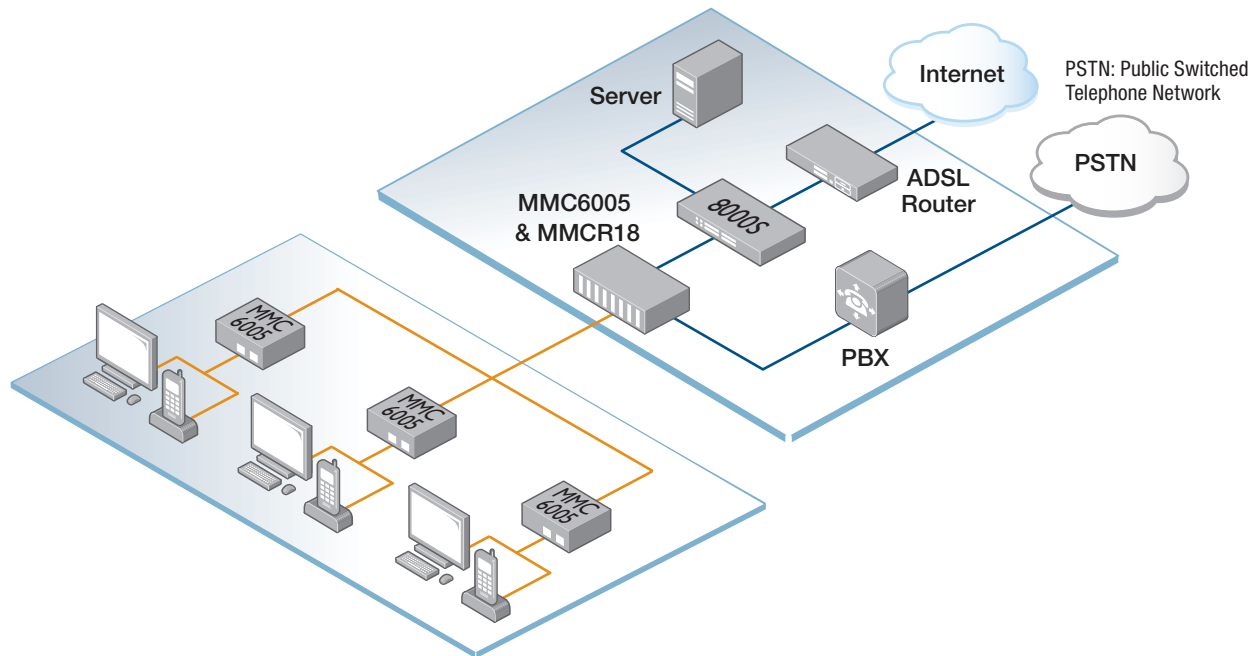
Simply connect to the RJ-45 Ethernet port and the unit will automatically auto-sense and configure for 10/100/1000T, as well as full- or half-duplex Ethernet operation.

## Key Features

- ▶ Up to 150Mbps bidirectional VDSL operation up to 3 km or 10,000 ft
- ▶ Can function as a subscriber or provider by flipping a switch
- ▶ Supports both fast mode and interleave mode
- ▶ Operates over category 1, 2, 3 or 5 telephone-quality cabling
- ▶ 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
- ▶ Energy Star compliant external power adapter

\*external POTS splitter required

## Key Solution



### Technical Specifications

#### Product Specifications

DMT modulation  
Spectrally compatible with ISDN and POTS services FDD duplexing  
Datarate up to 100Mbps / 60Mbps full-duplex  
4M flash  
Half-/full-duplex  
Auto-negotiation  
Auto MDI/MDI-X

#### Speed/Distance

Speed up to 100Mbps / 60Mbps at short distances; data throughput up to 3km or 10,000ft distances (subject to cable type)

#### Front Panel Indicators

System power  
Ethernet link  
Ethernet activity  
VDSL link  
VDSL rate

#### Interface Connections

VDSL interface RJ-11  
Ethernet interface RJ-45  
POTS interface RJ-11  
Management 4-pin DIP switch

#### Physical Characteristics VDSL Interface

Dimensions (W x D x 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 and rack-mountable (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  
Power consumption 2W  
Energy Star compliant

#### Country of Origin

China

#### Approvals

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

### Ordering Information

#### AT-MMC6005

Subscriber/provider unit with Energy Star multi-country power adapter.