

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

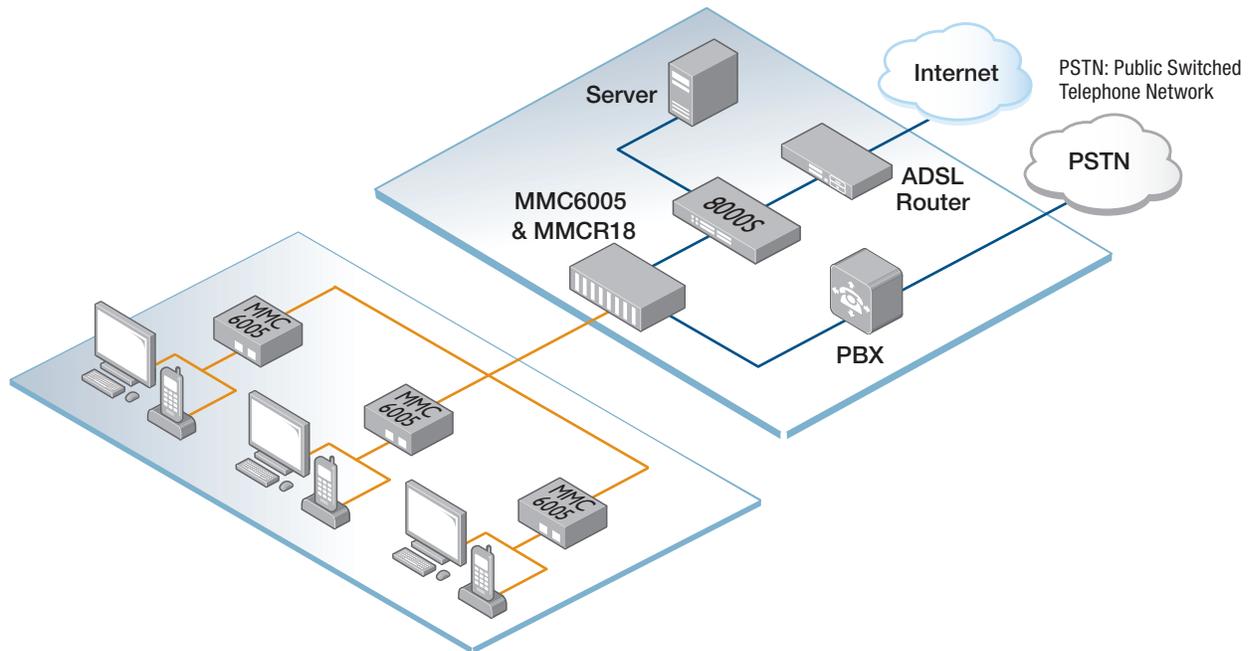
Simply connect to the RJ-45 Ethernet port and the unit will automatically auto-sense and configure for 10/100/1000T, as well as full- or half-duplex Ethernet operation.

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.