



## RMT497

### Remote Multiservice Terminal

#### Product Overview

The Remote Multiservice Terminal (RMT) is a sealed cabinet that protects the integrated Multiservice Access Platform (iMAP) and associated equipment from water, dust, and all other outdoor elements. The RMT497 cabinet is manufactured to Allied Telesis design parameters to insure the equipment will function under 'worst case' conditions. Allied Telesis has designed many different sizes of cabinets which let service providers select an exact match for their needs, with the assurance that Allied Telesis can integrate the iMAP and associated equipment into the cabinet.

#### Capacity

RMT497 enclosure is sized to accommodate up to four iMAP 9700 chassis or six iMAP 9400 chassis or eleven iMAP 9100 chassis'.

Each iMAP 9700 chassis can support :

- Up to 160 active Ethernet FTTx with the 10 port card or 320 with the 20 port card
- Up to 160 10/100TX Ethernet ports
- Up to 128 GbE circuits
- Up to 384 POTS
- Up to 384 ADSL2+
- Up to 192 POTS / ADSL2+ using the combo card
- Up to 128 T1/E1 circuit emulation service
- Up to 384 G.SHDSL
- Up to 1024 GEPON (32:1 split)
- Up to 384 VDSL2

Each iMAP 9400 chassis supports:

- Up to 70 active Ethernet FTTx with the 10 port card or up to 140 with the 20 port card
- Up to 70 10/100TX Ethernet ports
- Up to 56 GbE circuits
- Up to 168 POTS
- Up to 168 ADSL2+
- Up to 144 POTS / ADSL2+ using the combo card
- Up to 56 T1/E1 circuit emulation service
- Up to 168 G.SHDSL
- Up to 448 GEPON (32:1 split)
- Up to 168 VDSL2

Each iMAP 9100 chassis supports:

- Up to 30 active Ethernet FTTx with the 10 port card or up to 60 with the 20 port card
- Up to 30 10/100TX Ethernet ports
- Up to 24 GbE circuits
- Up to 72 POTS
- Up to 72 ADSL2+
- Up to 48 POTS with 24 ADSL2+ combo
- Up to 24 T1/E1 circuit emulation service
- Up to 72 G.SHDSL
- Up to 192 GEPON (32:1 split)
- Up to 72 VDSL2

#### Key Features

- Integrated environmentally controlled enclosure for Outside Plant (OSP) deployments
- Integrated power supplies and Allied Telesis Multiservice Access Platforms
- Supports POTS, ADSL, legacy telephony and fiber FTTx deployments
- Sealed design with efficient, low maintenance environmentally controlled cooling
- Meets Telcordia GR-487 requirements
- Optional cabinet accessories
- Optional CAT5 wiring between all cabinet components for ADSL2+ and VDSL2 deployment

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## Connectivity

Allied Telesis utilizes CAT 5 wiring specifically configured to optimize the delivery of ADSL2+ and VDSL2 for greater rate and reach results. The RMT497 incorporates this wiring plan when copper-based architectures are used to deliver xDSL-based services. Allied Telesis also has incorporated into the RMT497 the capability to support fiber-based architectures and the migration from copper to fiber architectures.

## Flexibility

The RMT497 is a cabinet that can be pad mounted and has the flexibility to support copper to fiber migration. The cabinet is double sided with two 19 inch racks on one side and two 23 inch racks on the other side. The RMT497 comes with a battery back up compartment and battery heaters. The RMT497 is also equipped with an air conditioner. A pad mounting kit, copper protection, fiber management, and fiber termination shelves are optional.

## Reliability

The RMT497 is designed and built to meet Telcordia GR-487 standards. Battery compartments are sized to accommodate eight hours of battery backup based on maximum power usage design. DC power plants provide for redundant rectifier capability, battery monitoring, low voltage disconnect, and thermal run away protection. The enclosure requires little, if any, maintenance for fans and filters.

## Technical Specifications

### Physical Characteristics

Dimensions 200.7cm x 106.7cm x 162.6cm  
(W x D x H) 79in x 42in x 64in

### Enclosure Mounting

Pad

### Rack Mounting Space

44 RU for swing out rack  
48 RU for stationary rack

### Hole Spacing on Racks

1.75 inch

### Rack Widths

19 inch and/or 23 inch

## Protect Field

0 to 2000-pair

## Cross Connect Field

None

## Fiber Termination

864 fiber splice/termination maximum capacity

## Locking Mechanism

7/16" hex security quarter turn mechanism with padlock capability

## The RMT497 includes:

### Modular Cabinets

- 1 x Modular 21 cabinet, fixed rack 23"
- 2 x Swing out rack
- 1 x Fixed rack, end bay
- 4 x Splice rack ladder rung assembly

### AC Input Panels

- 1 x AC power center 100A w/60A gen con 12 breaker pos.  
(2) 15A, (2) 20A single pole,  
(2) 20A, (2) 30A 2 pole breakers
- 1 x 6 pole, 2 row screw down terminal
- 2 x Convenience outlet, GFI duplex 115V AC, 20A

### Alarms

- 9 x Door alarm, 1 door
- 1 x Power loss alarm (relay)

### Air Conditioner

- 1 x 19,000 BTU/Hr, 115V, 1 ph, 50/60 Hz, 2000 W heat, stock, type 4

### Generator Inlets

- 1 x Generator hook up (Hubbel Connector 60A, male) cabinet half HBL460RS1WR

### AC Surge Compression

- 1 x AC surge suppression MOV, Citel 120/240V AC 40K amp

### Battery Components

- 4 x Heating pad
- 4 x Sheet metal tray for modular battery heater
- 4 x 10 feet battery cable assembly
- 4 x Battery tie down kit

## Fiber Splicing/Termination

- 1 x 24 fiber termination/splice shelf, (1) NTM-A, (12) SC/UFC adapters

## Rectifier Systems

- 1 x Controller, rectifier with Ethernet port
- 1 x Shelf, 19" mid mount rectifier, w/ LVD
- 2 x Rectifier module, 50A valere
- 1 x 10 GMT fuse distribution panel e/w 3 GMT 5A fuses
- 1 x Circuit breaker distribution panel e/w 3 25A bullet breakers
- 1 x Temperature probe
- 1 x Packaging - pallet, cardboard, corner guards, padding, tray

## Ordering Information

AT-TN-R027-A	30 amp bullet breaker
AT-TN-R095-A	50 amp bullet breaker
AT-TN-R126-A	NSB 145 amp hour battery string
AT-TN-R133-A	RMT497 embed mounting kit
AT-TN-R135-A	100-pair CAT 5 wired protector
AT-TN-R136-A	100-pair CAT 3 wired protector
AT-TN-R142-A	Rectifier controller (Valere BC2000)
AT-TN-R144-A	SPC 24 fiber termination/splice shelf
AT-TN-R145-A	SPC 72 fiber termination/splice shelf
AT-TN-R148-A	RMT497 cabinet
AT-TN-R154	Cabinet fiber management option
AT-TN-R155-A	SPC 36 fiber termination panel

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617-000290 Rev.A