

RMT497

Remote Multiservice Terminal

Product Overview

The Allied Telesis Remote Multiservice Terminal (RMT)497 is a sealed cabinet that protects the Allied Telesis 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 specifications to ensure 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

The 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 384 active Ethernet FTTx
- ▶ Up to 128 10/100TX Ethernet ports
- ▶ Up to 384 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 1024 GEAPON (32:1 split)
- ▶ Up to 384 VDSL2

Each iMAP 9810 chassis supports:

- ▶ Up to 192 active Ethernet FTTx
- ▶ Up to 64 10/100TX Ethernet ports
- ▶ Up to 192 GbE circuits
- ▶ Up to 192 POTS
- ▶ Up to 192 ADSL2+
- ▶ Up to 96 POTS / ADSL2+ using the combo card

- ▶ Up to 60 T1/E1 circuit emulation service
- ▶ Up to 512 GEAPON (32:1 split)
- ▶ Up to 192 VDSL2

Each iMAP 9100 chassis supports:

- ▶ Up to 72 active Ethernet FTTx
- ▶ Up to 24 10/100TX Ethernet ports
- ▶ Up to 72 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 192 GEAPON (32:1 split)
- ▶ Up to 72 VDSL2

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.

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

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

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:

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 HBL460RS1WRT

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/
UPC 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