

RMT297

Remote Multiservice Terminal

Product Overview

The Allied Telesis Remote Multiservice Terminal (RMT)297 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 RMT297 cabinet is manufactured to Allied Telesis design standards 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 RMT297 enclosure is sized to accommodate up to two iMAP™ 9700 chassis, three iMAP™ 9400 chassis or five MiniMAP™ 9100 chassis.

Each iMAP 9700 chassis supports:

- ▶ 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 RMT297 incorporates this wiring plan when copper-based architectures are used to deliver xDSL-based services. Allied Telesis also has incorporated into the RMT297 the capability to support fiber-based architectures and the migration from copper to fiber architectures.

Flexibility

The RMT297 is a cabinet that can be pad mounted and has the flexibility to support copper-to-fiber migration. The cabinet is double sided with one 19-inch rack on one side and one 23-inch rack on the other side. The RMT297 comes with a battery back up compartment and battery heaters. Pad-mounting kit, protection systems 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
- ▶ Designed to Telcordia GR-487 requirements
- ▶ Optional CAT5 wiring between all cabinet components

Reliability

The RMT297 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) 119.4 cm x 106.7 cm x 162.6 cm
(47 in x 42 in x 64 in)
Weight 272.73 kg (600 lb)

Enclosure Mounting

Pad

Rack-Mounting Space

22 RU for swing out rack
24 RU for stationary rack

Hole Spacing on Racks

1.75 inch

Rack Widths

19 inch and/or 23 inch

Protect Field

1000-pair

Cross Connect Field

None

Fiber Termination

432 fibers splice/termination

Locking Mechanism

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

The RMT297 includes:

Cabinets

1 x Modular 11 cabinet
1 x 19" fixed vertical rack (rear-mounted)
1 x 19" swing out rack, price each front mount
1 x Fixed rack, end bay
4 x Splice rack ladder rung assembly

AC Input Panels

1 x AC power center 100A w/30A gen con break. 12 breaker pos.
1 x Convenience outlet, GFI duplex 115V AC, 20A

Alarms

5 x Door alarm, 1 door
1 x 6 pole, 2 row screw down terminal

Heat Exchangers

1 x 55 W/F, 48vDC, 8"
1 x Temperature switch, on/off

Generator Inlets

1 x Generator hook up (Hubbel connector 30A, twist lock) male on cabinet

AC Surge Compression

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

Battery Components

2 x Battery slide out tray with built-in heating pad
2 x 10 feet battery cable assembly #6 awg
2 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, 15A valere
1 x 10 GMT fuse distribution panel e/w 3 GMT 5A fuses
1 x Circuit breaker distribution panel e/w 2 25A bullet breakers
1 x Temperature probe for batteries
2 x AC power cord 10-AWG, 10 feet long
2 x 25A bullet breaker (for batteries on LVD)
2 x 10 feet rectifier alarm
2 x Valere alarm input cable
2 x 5A GMT fuse

Ordering Information

AT-TN-R027-A	30 amp bullet breaker
AT-TN-R031-A	25 amp rectifier
AT-TN-R095-A	50 amp bullet breaker
AT-TN-R123-A	RMT297 cabinet
AT-TN-R126-A	NSB 145 amp hour battery string
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-R146-A	Battery heater pad
AT-TN-R149-A	RMT297 embed mounting kit
AT-TN-R154	Cabinet fiber management option
AT-TN-R155-A	SPC 36 fiber termination panel