

# Megaplex-4 T3

## T3 Multiplexer Module



- Single-port T3 interface module multiplexing up to 28 T1 channels
- T3 line and module protection
- DACS capabilities with cross-connect of T1 multiplexed within DS3
- Remote and local loopbacks on T3 and T1 ports

### T3 INTERFACE

T3 is a single-port multiplexer module for Megaplex-4, providing access to standard T3 equipment over unbalanced copper lines with full duplex data rates of 44.7 Mbps, enabling easy connectivity to a T3/SONET network.

As a terminal multiplexer, the module is used as a feeder for a T3 network, or to access channelized DS3 ports of higher order switches in PDH or SONET networks. In this capacity, it grooms traffic and multiplexes T1/Fractional T1, E1/Fractional E1 and  $n \times 64$  kbps data.

The module provides the full channelization functionality of an M13 multiplexer required to multiplex and demultiplex 28 independent T1 channels into and from a single T3 interface.

### TIMING

The T3 port can be used as the source clock for the system. When working with CL modules that have no SDH/SONET ports, any internal T1 port can also serve as system clock source.

### PROTECTION

T3 protection is ensured by installing a second module in the chassis as a standby backup.

### DIAGNOSTICS

Diagnostics include local and remote loopbacks on the T3 and internal T1 ports.

### MANAGEMENT

All module operating parameters are soft-selectable through the Megaplex management

## Specifications

### T3 INTERFACE

#### Number of Ports

1

#### Compliance

ANSI T1.107

ANSI T1.102

#### Data Rate

Full-duplex  
44.736 Mbps

#### Connector

BNC, female

#### Line Impedance

75 $\Omega$ , unbalanced

#### Line Code

B3Zs

#### Pulse Shape

ANSI T1.102\_1993, ITU-T Rec. G.703

#### Framing

M13, C-bit parity

#### Timing

System clock

#### Performance Monitoring

RFC-3896

### T1 INTERFACE

#### Number of Ports

28 internal ports

#### Compliance

AT&T TR-62411

ANSI T1.403

ITU-T Rec. G.704

#### Data Rate

1.544 Mbps

#### Framing

ESF, SF, Unframed

#### Timing

System clock (when working with CL modules that have no SDH/SONET ports)

#### Performance Monitoring

ANSI T1.403

## T3

## T3 Multiplexer Module

## GENERAL

## Diagnostics

Remote and local loopbacks on:

- T3 ports (per port)
- T1 ports (per port and per timeslot)

## Indicators

SYNC (green/red):

- Lights in green when the port is active and operating properly
- Lights in red when the port is active and detects a LOS, LOF or AIS alarm indication
- Off: not active or not connected

REM SYNC (yellow): Lights when the port detects loss of remote synchronization

## Power Consumption (max.)

10.4W

## Environment

Operating temperature: -10°C to +55°C  
(14°F to 131°F)

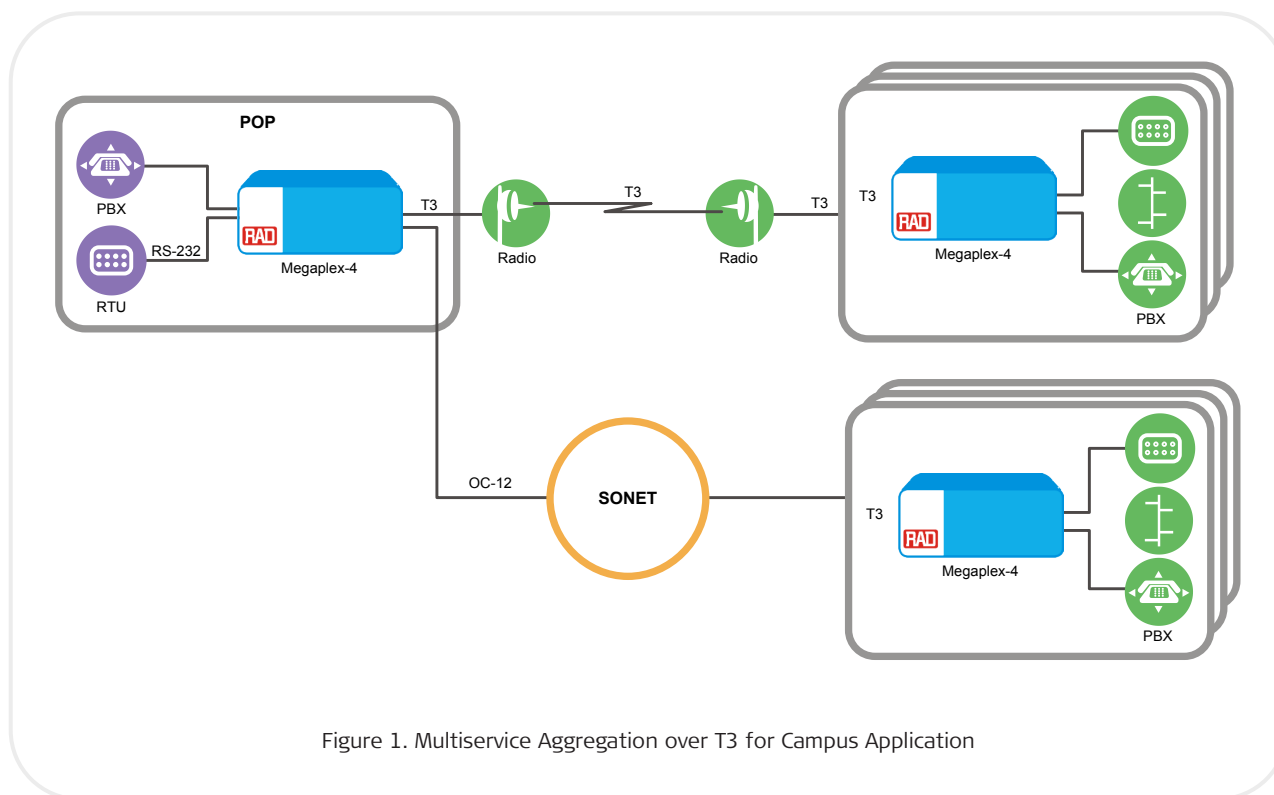
Storage temperature: -20°C to +70°C  
(-4°F to +160°F)

Humidity: up to 95%, non-condensing

## Ordering

MP-4100M-T3

T3 multiplexer module



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