

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

75Ω, 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

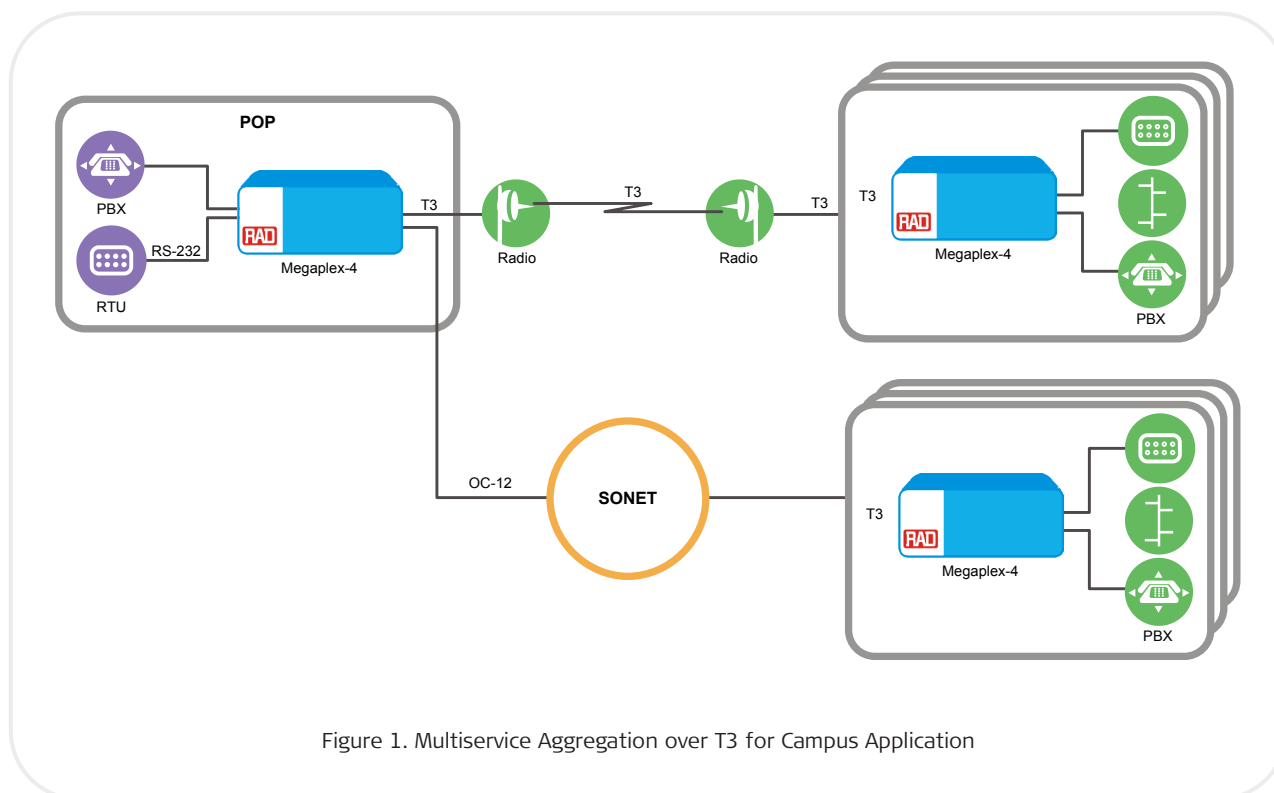


Figure 1. Multiservice Aggregation over T3 for Campus Application

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