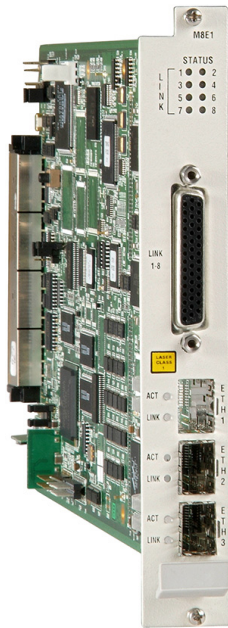


Megaplex-4100 Modules

M8E1, M8T1

8-Port E1 and T1 Modules



- Support up to 8 E1 or T1 interfaces with built-in LTU (E1) or CSU (T1)
- Multiple clock source selection
- E1 interface meets ITU-T Rec. G.703, G.704 and G.732
- T1 interface is compatible with ANSI requirements
- Fit into any I/O slot of the MP-4100 chassis

The M8E1 and M8T1 modules enable direct connection of Megaplex-4100 to up to 8 E1 or T1 lines. Up to 10 modules can be installed in a single chassis, providing the Megaplex-4100 with up to 80 E1/T1 ports.

The E1 interface is compatible with all carriers provided E1 services, meeting the requirements of ITU-T Rec. G.703, G.704 and G.732. It supports both 2 (G732N) and 16 (G732N) frames per multiframe formats. CRC-4 and E bit are also supported, complying with G.704 recommendations. Zero suppression over the lines is HDB3.

The E1 interface is equipped with an integral user-enabled LTU, ensuring ranges of up to 2 km (1.2 miles).

The T1 interface is compatible with ANSI requirements. Both D4 and ESF framing formats are supported. Zero suppression is selectable for Transparent, B7ZS, or B8ZS.

The T1 interface is equipped with an integral user-enabled CSU, ensuring ranges of up to 1.6 km (1 mile).

Diagnostic capabilities feature local and remote loopbacks on each module port, and local and remote loopbacks per timeslot. Performance statistics for each of the eight links may be obtained and analyzed via the Megaplex-4100 management system.

Specifications

Number of Ports per Module
8

E1 INTERFACE

Standards Compliance
ITU-T G.703, G.704, G.732 (Including CRC-4 and E bit)

Framing
2 frames (G732N), or 16 frames (G732N) per multiframe

Data Rate (per link)
2.048 Mbps

Line Code
HDB3

Jitter Performance
As per ITU-T G.823

Impedance
Balanced 4-wire: 120Ω
Unbalanced coax: 75Ω

Provide the Megaplex
with 8 E1 or T1
tributary ports



data communications

Innovative Access Solutions

T1 INTERFACE**Standards Compliance**

ANSI T1.107 and T1.403

Framing

D4, ESF

Data Rate (per link)

1.544 Mbps

Line Code

Bipolar AMI

Zero Suppression

Transparent, B7ZS, B8ZS

Jitter Performance

As per AT&T TR-62411

Impedance

Balanced 4-wire: 100Ω

Signal Level

Receive:

Without CSU: 0 to -10 dBm

With CSU: 0 to -34 dBm

Transmit:

Without CSU: $\pm 3V$ ($\pm 10\%$),

user adjustable,

measured at 0 to 655 ft

With CSU: 0, -7.5, -15, -22 dBm

DIAGNOSTICS**Loopbacks**

User-activated local and remote loopback on each port

Local and remote loopbacks per timeslot *T1 interface only*:

Network line loopback

Network payload loopback

Statistics (T1 mode only)

Full statistical diagnostics capability according to ANSI T1.403-1989

GENERAL**Dual-color indicator (per link)**

Lights steadily in green when the port is connected and carries traffic

Flashes in green when the port is connected and is the standby port in a redundancy pair

Lights in red during local loss of synchronization or red alarm

Off when not connected

Line ConnectorSingle DB-44, female (see *Ordering* for splitter cables available from RAD)**Power Consumption**

9.0W

Ordering**MP-4100M-8/E1**

8-port E1 module with balanced interface for MP-4100

MP-4100M-8/T1

8-port T1 module for MP-4100

OPTIONAL ACCESSORIES**CBL-G703-8/RJ45**

Splitter cable for splitting the 44-pin module connector to 8 E1 or 8 T1 balanced RJ-45 connectors

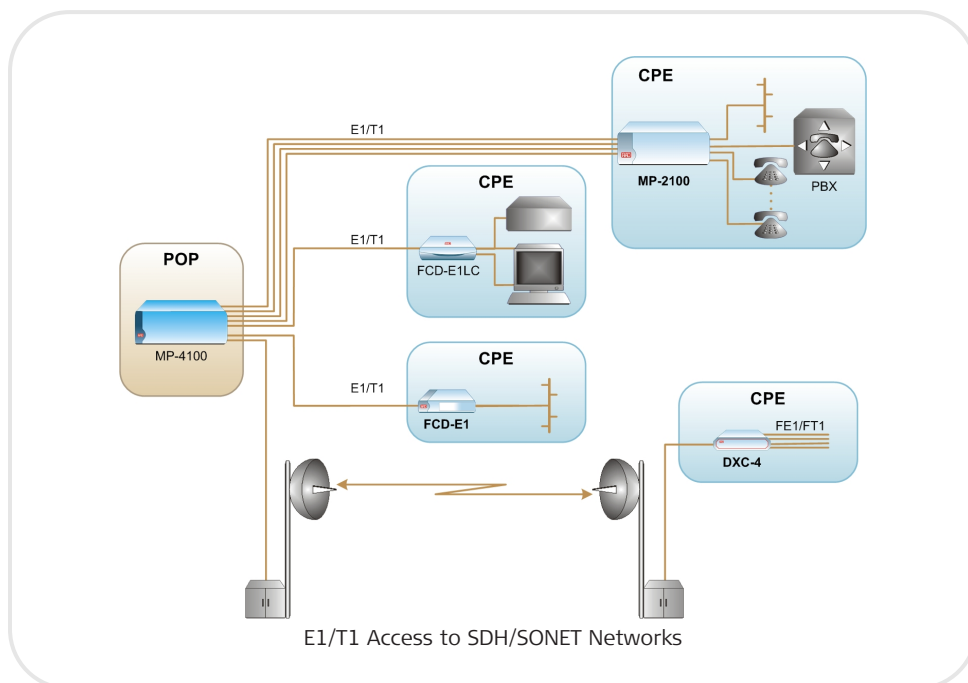
CBL-G703-8/COAX

Splitter cable for splitting the 44-pin module connector to 8 pairs of unbalanced BNC connectors

CBL-G703-8/OPEN/2M

Open-ended cable with DB-44 connector on the Megaplex side for balanced 120Ω application

All the cables are 2m (6.6 ft) long.

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