

FOM-E3, FOM-T3

E3, T3 Fiber Optic Modems



The high speed FOM-E3 and FOM-T3 fiber optic modems extend transmission range of electrical E3 or T3 signals over fiber optic cables up to 110 km (68 miles).

Two models are available:

- FOM-E3 for E3 rates (34.368 Mbps)
- FOM-T3 for T3 rates (44.736 Mbps)

The FOM-E3 and FOM-T3 support a wide range of fiber optic interfaces, including long haul laser for extended ranges and WDM laser for transmission over a single fiber.

Transparent to E3/T3 framing, the FOM-E3 and FOM-T3 modems operate opposite RAD's DXC cross connect, Optimux-134 multiplexer (FOM-E3)

and Optimux-45 multiplexer (FOM-T3). Similarly, they can operate opposite an ACE ATM access device, enabling E3/T3 ATM traffic to be transported over long distances on fiber and connect to an ATM or SDH network device with an electrical E3/T3 port.

FOM-E3 and FOM-T3 operation complies with ITU G.703, G.921 and G.956 standards. In addition, the modems support activation of local and remote loopbacks in compliance with the ITU V.54 standard.

The FOM-E3 and FOM-T3 modems include a dry contact alarm port for relay of alarm conditions to external alert equipment.

- **Extends the range of E3 or T3 signals over fiber optic cable up to 110 km (68 miles)**
- **Wave Division Multiplexing (WDM) module for operation over a single fiber strand**
- **Wide range of optical modules including long haul lasers for extended range**
- **Operates opposite Optimux, ACE and DXC**
- **Built-in diagnostics comply with V.54 standard**
- **Dry contact alarm port for external alert devices**

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FOMi-E3, FOMi-T3

E3, T3 and HSSI Manageable Fiber Optic Modems



The FOMi-E3 and FOMi-T3 are high speed fiber optic modems that extend the transmission range of electrical E3 or T3 over fiber optic cables:

- FOMi-E3** for E3 rates (34.368 Mbps)
- FOMi-T3** for T3 rates (44.736 Mbps)

Both modems can optionally support an HSSI DCE interface, which operates at the same rate as the modem type into which it is inserted (E3 at 34.368 Mbps and T3 at 44.736 Mbps). The HSSI option also supports bit rates of one-half and one-fourth of the main link rate. This option enables connection of high speed HSSI routers over backbones at E3 or T3 rates.

The FOMi-E3 and FOMi-T3 can substitute for an ACE, DXC or Optimux unit at the central office that works opposite identical devices at the customer premises, thereby enabling low-cost extension and conversion of E3/T3 fiber interfaces to standard electrical interfaces. When

replacing an Optimux device at the central office, the FOMi-E3 or FOMi-T3 enables the use of one E3/T3 port on the ADM rather than using many E1/T1 ports.

The optical interface of the FOMi-E3 or FOMi-T3 is modular. The modems support the wide range of optical modules supported by the Optimux. These modules include multimode, single mode, laser, long haul laser, WDM, and all types of optical connectors. There is an option to install two optical interfaces for full redundancy of the optical link. There is also an option of dual power supplies for additional redundancy.

FOMi-E3 and FOMi-T3 feature flexible management capabilities, including local management via an ASCII terminal (RS-232). In addition, remote management can be performed out-of-band using a dedicated management protocol.

- **Extends the range of equipment with electrical E3, T3 or HSSI interfaces**
- **Inband management on both local and remote units**
- **Redundancy on fiber optic link and power supply**
- **Wave Division Multiplexing (WDM) module for operation over a single-strand fiber optic link**
- **Works opposite Optimux, ACE and DXC**
- **Different clock modes including central system clock**
- **Wide range of modular optical interfaces**

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