

Fiber Optical Multiplexers



ORDERING INFORMATION

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SPOTLIGHT

The **AN-FM-480** family are standalone and rack mountable fiber 16 x E1 modems available in a number of different models, with AC or DC power supplies built-in. The **AN-FM-480** family of modems may be applied in point-to-point applications or they may be installed and linked to a centrally located AN-CH01 or AN-CH03 chassis.

DESCRIPTION

The **AN-FM-480** is a fiber media transport for 16 x G.703 E1 transmission. The BNC model provides unbalanced 75 Ohm coaxial connections while the RJ-45 model provides balanced 120 Ohm connections over twisted pair wiring.

All media converters are available with either multi-mode or single-mode optical transceivers and with connectors for SC, ST, or FC. In single mode they are available in up to 120 km versions reach, which will provide the ability to transmit and receive data using only a single optical fiber pair.

When the **AN-FM-480** is linked to the **AN-CH03** with **AN-FM-480** card, it allows network engineers to get greater functionality through advanced SNMP features, the network administrator can manage any converter module from anywhere on the network, detect any link loss and maintain each loop.

FEATURE

- Provides 16 E1/G.703 interface over optical fiber lines
- Local device monitor remote device (2 row LEDs, upper indicate local status, lower indicate remote status)
- Provide function of 16 E1 remote loop, fiber local loop, and 1 interface of phone.
- Power supply option: AC220V, DC-48V, DC+24V (optional).
- Transmission distance: 2-120 Km
- Two fiber two direction and single fiber two direction (optional).
- Match telecom operation requirement, MTBF above 70,000 hours.
- High reliability, provide install type of 19 inch rack, desktop, hang-on, and card.
- The rack support both DC and AC power supply.
- Provide SNMP function.

SPECIFICATION

E1 interface parameter:

Channel capacity: 16 Channels
Bit Rate: 2.048 Mb/s \pm 50 ppm
Line Code: HDB3
Line Impedance: 120 Ohm / 75 Ohm
Connector: RJ-45 or BNC
Pulse Shape: ITU-T G.703
Jitter Performance: ITU-T G.823

Optical interface parameter:

Optical wavelength: 850/1310nm for multi-mode fiber, 1310/1550nm for single-mode fiber
Optical interface: SC/FC/ST (Optional)
Transceiver module: > -6dBm
Optical receiver sensitivity: < -36(BER<10)
Receive range: > -30dB

Transmission distance: multi-mode 2 Km, single-mode 20/ 40 / 80 / 120 Km, WDM versions for any distance available

Power:

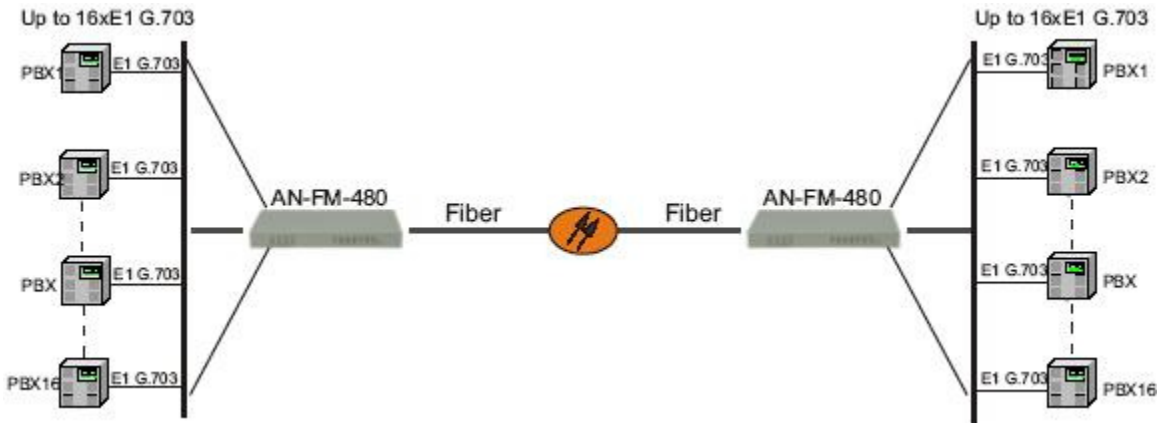
DC: -48V (-36 to -72V); +24 V (Optional)
AC: 90 to 260 VAC ; 47 ~ 63Hz
Power Interface: DC power terminal/AC socket
Power Consumption: 10 W maximum

Working environment:

Operating temperature: 0 to 50°C
Storage temperature: -20 to +70°C
Relative humidity: 5% to 90% (25°C no condense)

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Application scenario:



PART INFORMATION:

AN-FM-480-MM	16xE1 signal over multi-mode fiber 2km SC/ST
AN-FM-480-S20	16xE1 signal over single-mode fiber 20km SC/ST
AN-FM-480-S40	16xE1 signal over single-mode fiber 40km SC/ST
AN-FM-480-S40	16xE1 signal over single-mode fiber 40km SC/ST
AN-FM-480-S80	16xE1 signal over single-mode fiber 80km SC/ST
AN-FM-480-S120	16xE1 signal over single-mode fiber 120km SC/ST

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