



**86-2F13S
SERIES
SINGLEMODE**

Two Fiber Bi-directional Telephone Line Extender System

Features:

- ◆ Standard Telephone Interface
- ◆ Two Singlemode Fibers
- ◆ Diagnostics: Power and Optical Presence
- ◆ Voice and FAX
- ◆ Economical
- ◆ Includes: Contact from Handset to Line
- ◆ Compatible with Momentary Disconnect

SPECIFICATIONS:

Audio:

I/O Level0 dBm
I/O Impedance 600 Ohms
Audio Bandwidth 4 KHz
SNR.....60 dB
ConnectorRJ11

Contact Closure:

Input Switch Closure to Ground
Output Dry Contact
Response Time 2 ms
Max Voltage 100 VDC or Peak AC
Max Current 0.5 A
Connector Terminal Block

Optical:

Wavelength 1310 nm
Loss Budget (9/125µ).....12 dB
Connector ST

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Rack Card – (see AFI Part #: SR -20/2)
Module Transmitter – 24VDC @800mA
(See AFI Part # PS-24DC)
Module Receiver – 12VAC @500mA
(See AFI Part # PS-12AC)

Size:

Rack Card Requires one rack slot
Module: 6½" X 1 " X 5 "

Ordering information:

MR-86-2F13S = Module Phone Line Interface
RR-86-2F13S = Rackcard Phone Line Interface
MT-86-2F13S = Module Handset Device
RT-86-2F13S = Rackcard Handset Device

Example:

MT-86-2F13S to RR-86-2F13S

1/10/11 JPK



The *American Fibertek* 86-2F13S Series transmits and receives standard telephone signals on two singlemode optical fibers using AM/FSK transmission. This system is designed to be completely transparent to all telephony signals including ring, off-hook, hook-switch flash and forward disconnect. Products require no field adjustments at installation or additional maintenance thereafter. Diagnostic Indicators provide a quick visual indication of system status. The 86 Series are ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20/2 or SR-20R/1.

The MT and RT supports up to 1000 feet of 24 AWG wire from the fiber optic unit to the telephone handset.

Other 86 series product configurations include 2 fiber units at 850 or 1300nm and an MX or RX series "talk down" (order wire) phone system. Contact the factory for details.

These units have been optimized for equipment with Data rates up to 14.4Kbs. Please consult the factory for other requirements.

