



**89A-AX
SERIES
MULTIMODE
SINGLEMODE**

Single Channel Digital Video Transmission System With Bi-Directional Audio and Two Bi-directional Contact Closures For Aiphone AXW-AVT/R Video / Intercom Systems

FEATURES:

- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Audio, and Contact Closure Activity, Digital Frame Sync, and Optical Presence
- Serial Digital Transmission
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level1 Vpp
I/O Impedance	75 Ohms
Bandwidth	7 MHz
Differential Gain	2%
Differential Phase	0.7 °
SNR	65 dB
Connector	BNC

Audio:

I/O Level @ 600 Ohms:0 dBm
Bandwidth	20 Hz to 20 KHz
THD @ 1 KHz	0.03%
SNR	81 dB
Connector	Terminal Block

Contact Closure:

Input	Switch Closure to Ground
Output	Dry Contact
Response Time2 ms
Maximum Voltage	100 VDC or Peak AC
Maximum Current	0.5 amp
Connector	Terminal Block

Optical (89A-AX Series):

Wavelength	1310/1550 nm
Loss Budget (62.5/125µ)12 dB
Maximum Transmission Distance	4 Km
Connector	ST

Optical (89A-AX-SL Series):

Wavelength	1310/1550 nm
Loss Budget (9/125µ)21 dB
Connector	FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Rack Card (See AFI Part #: SR-20D/2)

Size:

Module - 8 1/8" x 4 1/8" x 1 1/8"
Rack Card - 6 1/2" x 1" x 5"

Multimode Ordering information:

MT-89A-AX = Module Transmitter
RT-89A-AX = Rack Card Transmitter
MR-89A-AX = Module Receiver
RR-89A-AX = Rack Card Receiver

Singlemode Ordering information:

MT-89A-AX-SL = Module Transmitter
RT-89A-AX-SL = Rack Card Transmitter
MR-89A-AX-SL = Module Receiver
RR-89A-AX-SL = Rack Card Receiver



The American Fibertek 89A-AX and 89A-AX-SL Series are designed to interface with the Aiphone AXW-AVT/R video / intercom system. The 89A-AX Series transmits one channel of high-quality, 10 bit digitized video along with one channel of bi-directional audio, and two channels of bi-directional contact closure on one multimode optical fiber. The 89A-AX-SL Series transmits one channel of high-quality, 10 bit digitized video along with one channel of bi-directional audio, and two channels of bi-directional contact closure on one singlemode optical fiber. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.

