



250F

**Broadcast Quality Audio/Video/Data Transport System
with Alarm/Monitoring**



“250C Short Haul Video”

**“Alarm/Monitoring
Features”**



**“High performance and affordable solutions for your
broadcast quality analog video/audio/data transmission.”**

Applications

Broadcast Video Distribution

Studio to Transmitter Link

Distance Learning

Security

The 250F Series is a high performance transmission system capable of carrying simultaneous unidirectional broadcast quality analog video, audio, and data transmissions over singlemode or multimode fiber.

Features

Exceeds 250C Short Haul Video

Specifications

Digital Encoded Fiber Optic Links

Visual and Audible Alarms

Accommodates 1 Video,
4 Audio, and 1 Serial Data Channel

1 RU/19” Rack Mount

1 Fiber Solution

CWDM Optics Available

The standard 250F model is capable of unidirectional transmission for one broadcast quality analog video, four audio channels (two stereo pairs), and one serial data (RS-232/RS-422) channel. The video quality in the 250F system meets 250C short haul specifications, while the audio specifications exceed professional standards. Unidirectional RS-232 serial data is available for control applications. The 250F requires no user adjustments, thus enabling a quick and easy setup, offering trouble-free operation.

The 250F is packaged as a rugged, standalone compact 19” rack mount unit. Rear panel connectors are provided for video (BNC), audio (terminal block), data (DB-9), video and audio monitoring, and fiber connections (FC-type for singlemode fiber or ST-type for multimode fiber).

Monitoring ports are available for all video and audio channels. The video monitoring port utilizes a 75 Ohm BNC termination while the 4 audio monitoring ports utilize 3 position, 600 Ohm terminal block connections. Other monitoring functions include LED indicators for video loss, optical link loss, power loss, and audio channel activity.

Due to its fully digital design, the 250F is capable of addressing a variety of non-standard configurations, available upon request. To order a customized version or OEM/private brand name, contact us at (800) 214-0222, for further information.



Doing More With One Fiber



250F

Broadcast Quality Audio/Video/Data Transport System

Broadcast Transmission Systems



Video with Monitor Out

| | |
|--------------------|----------------------|
| Channel Capacity | 1 plus 1 monitor |
| Signal Resolution | 10/12 Bits Digitized |
| Video Standard | 525/625 Lines |
| Bandwidth | 10MHz |
| Video Level | 1.0 Vp-p @ 75 Ohms |
| Differential Gain | <1.0% |
| Differential Phase | <0.7° |
| SNR (Weighted) | >70dB |
| Connector | BNC, 75 Ohms |

Audio with Monitor Out

| | |
|--------------------------|---|
| Channel Capacity | 4 plus 4 monitors |
| Operating Mode | Balanced or Unbalanced |
| Signal Resolution | 24 Bits |
| Input/Output Impedance | 600/600 Ohms (Balanced) |
| Max. Input/Output Level | +18dBm @ 600 Ohms (Balanced) |
| Magnitude Freq. Response | 20Hz to 20kHz @ -1 dB |
| SNR (Weighted) | >80dB @ 1kHz + 10dBm Input Level (Balanced) |
| Connector | Terminal Block |

Serial Data

| | |
|------------------|--------------------------------|
| Channel Capacity | 1 Unidirectional |
| Signal Format | RS-232 (RS-422 optional) |
| Data Rate | Up to 128 kbps (RS-232/RS-422) |
| Connector | DB-9 |

Physical

| | |
|------------------------|--|
| Dimension: (H x W x D) | |
| Standalone | 1.72" x 17.03" x 12.0" |
| Power | 95-240 VAC @ 2.4 A |
| Operating Temperature | 0 to +50°C |
| Humidity | 0 to 95% RH, Non-condensing |
| Status Indicators | Power, Optical Link, Video/Audio/Data Activity |

Indicator (LED)

| | |
|--------|---|
| TX | Power, Video Audio 1, 2, 3, 4, Alarm |
| RX | Power, Video, Optical Link, Audio 1, 2, 3, 4, Alarm including TX Indicators |
| Switch | AC Power, Alarm (Tone Enable/Disable) |

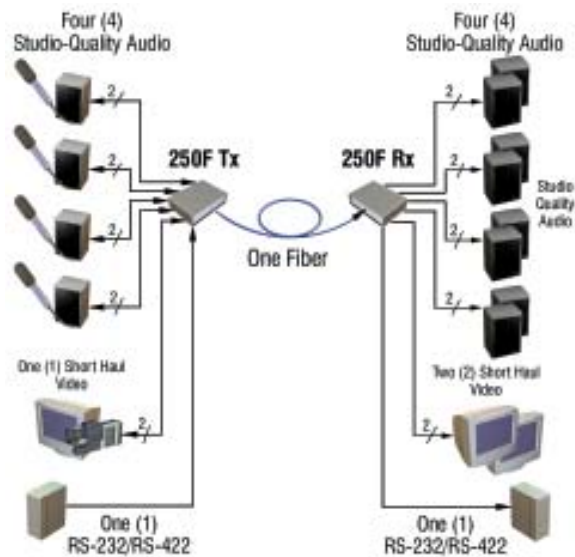
Alarm

| | |
|--------------------------------|-----------------------------|
| Alarm Tone | 90dB @ 3kHz |
| Power Loss (TX) | Continuous ————— |
| Link Loss (RX) | Pulsing Slow 1 Hz — — — |
| Video Loss (TX) | Pulsing Slow 1 Hz — — — |
| Link and Video Loss at TX (RX) | Pulsing Fast 2 Hz - - - - - |
| Battery Back Up | Only for Alarm |

Optical

| | |
|-----------------------|-----------------------------------|
| Fiber Type | Multimode and Singlemode |
| Number of Fibers | 1 |
| Wavelength | 850, 1310 and/or 1550 nm |
| Fiber Optic Connector | ST (Multimode) FC (Singlemode) |

Application



Typical Unidirectional Application

Doing More With One Fiber

Subject to continued product enhancement, we reserve the right to change the above specifications and description without notice.

