

**FAT/FAR1000 Series  
FAX1000 Series**



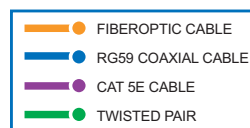
**Description**

Amplitude modulation (AM) is a time proven, highly reliable means of transmitting audio signals through optical fiber. This technique is only applicable for multimode fiber applications, but provides the advantage of simplicity and reduced cost when compared to other techniques. Units provide a signal-to-noise ratio of >60 dB (@10 dB optical loss) which is suitable for most security and other non-broadcast applications. FiberPatrol® units feature single and dual fiber options and stand alone and card cage mount alternatives. Units meet FCC Part 15, Class B requirements for radiated emissions and feature automatically resettable polymer fuses on all power rails. As with all FiberPatrol® communication units, no optical or electrical adjustments are required. Products can be mounted in a stand alone enclosure or in the RMC Communications Chassis.

**Features**

- Economical
- Multiple mounting options
- Meets FCC Part 15, Class B requirements for radiated emissions
- Multimode fiber transmission up to 3 miles
- Automatically resettable polymer fuses on all power rails
- Environmentally hardened

**Point-to-Point Audio**



**Audio**

Impedance:	600 ohms
Modulation:	Amplitude
Bandwidth:	20 Hz – 18 KHz @ -1 dB
Signal-to-Noise:	60 dB @ 10 dB optical loss
Total Harmonic Distortion:	<1% @ 0 dBm Output
Channel Crosstalk:	-80 dB
Maximum Level:	+ 6 dBm (600 ohms)

**Connectors**

Audio:	Spring-cage terminal block
Optical:	ST (SC optional)
Power:	Screw terminal block

**Certifications & Compliance**

Radiated Emissions:	FCC Part 15, Class B
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**Electrical & Mechanical**

Input Voltage:	8-18 VDC or from RMC (<100 mA @ 12 VDC)
Protection:	Automatic resettable polymer fuses
Circuit Board:	Meets IPC Standard
Size (LxWxH)	
Stand Alone Module:	7.0 x 4.9 x 1.0 in. (17.8 x 12.4 x 2.5 cm)
RMC Module:	7.7 x 5.0 x 1.0 in. (19.6 x 12.5 x 2.5 cm)
Shipping Weight:	<2 lbs. (.9 kg)

**Environmental**

MTBF:	>100,000 hours
Operating Temperature:	-40 C to + 74 C, ambient
Storage Temperature:	-40 C to + 85 C, ambient
Relative Humidity:	0% to 95% (non-condensing)

**Ordering Information**

**FAT/FAR1000 Series - One-Way Audio**

Description	Part Number	Fiber	# Fibers	Power Budget (dB)	Maximum Fiber Distance	# RMC Slots
Fiberoptic Audio FAT = Transmitter FAR = Receiver	FAT101 FAR1011	Multimode	1 (850 nm)	13	2.5 miles (4 km)	1

**FAX1000 Series - Bi-directional Audio**

Description	Part Number	Fiber	# Fibers	Power Budget (dB)	Maximum Fiber Distance	# RMC Slots
Fiberoptic Audio Transceiver	FAX1012	Multimode	2 (850 nm)	13	2.5 miles (4 km)	1
	FAX1031A FAX1031B		1 (850/1300 nm)			