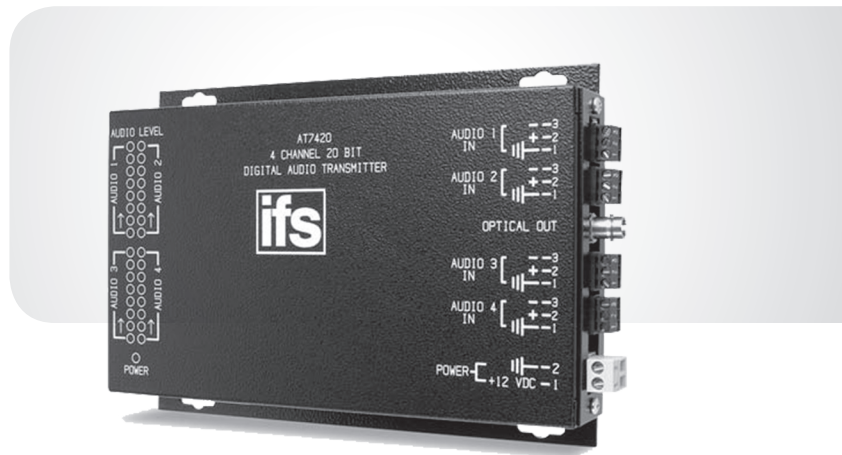


AT/AR7400 Series

IFS 4-Channel Audio Multiplexer



OVERVIEW

The IFS AT/AR7400 Series audio multiplexer provides for the simultaneous transmission of four audio signals over one multimode or single mode optical fiber. The modules use 20-bit digital encoding for superior transmission of balanced line-level audio. Plug-and-play design ensures ease of installation and requires no electrical or optical adjustments. The modules incorporate LED status indicators for monitoring critical operating parameters such as power, audio level input and optical lock. The modules are available in either stand-alone or rack mount versions.

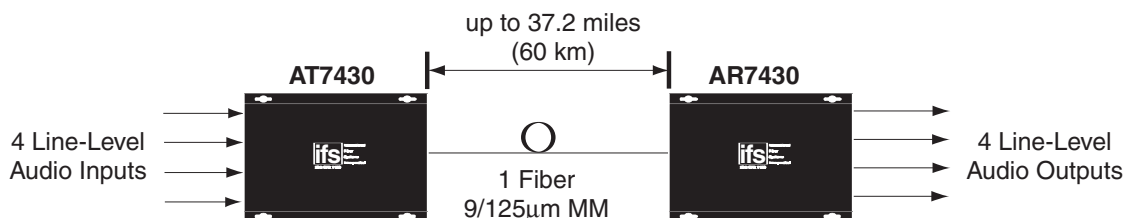
STANDARD FEATURES

- 20-Bit Digitally Encoded Transmission
- 20 Hz – 18kHz Bandwidth
- 600 Ohms Audio Input Impedance
- No In-field Electrical or Optical Adjustments Required
- LED Status Indicators for Monitoring Critical Operating Parameters
- Transmits Balanced Line-Level Audio up to +6 dBm
- Hot-Swappable Rack Modules
- Automatic Resettable Fuses on all Power Lines
- Comprehensive Lifetime Warranty

APPLICATION EXAMPLES

- Recording Studios and Post-Production Facilities
- Transmission of Broadcast Audio Feeds
- Elimination of EMI/RFI Interference in Audio Cables
- Optical Isolation for Elimination of Ground Loop Noise
- Installations with Limited Fiber
- Reduced Fiber/Cabling Cost
- Retrofits/System Upgrades

SYSTEM DESIGN



AT/AR7400 Series

North America T 855-286-8889 Latin America T 561-998-6114

IFS 4-Channel Audio Multiplexer

Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	AT7420	4-Channel Audio Transmitter (1310 nm)	1	13 dB	8 miles (13 km)
	AR7420	4-Channel Audio Receiver (1310 nm)	1	13 dB	8 miles (13 km)
Single Mode 9/125µm	AT7430	4-Channel Audio Transmitter (1310 nm)	1	20 dB	37.2 miles (60 km)
	AR7430	4-Channel Audio Receiver (1310 nm)	1	20 dB	37.2 miles (60 km)
Accessories ♦	PS12VDC1.5A-U	12VDC, 1.5A Plug-in Power supply (110/220VAC) with Universal power plug adapter kit (Included)			
Options	Add '-R3' to Model Number for R3 Rack Mount - No Charge (Requires R3 Rack purchased separately)				

*Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth. **For 50/125 Fiber, subtract 4 dB from Optical Power Budget.

♦ All accessories are third party manufactured.

Specifications

Video

# Input/Output Channels:	4 (balanced)
Audio Input/Output Signal:	4.4 volt pk-pk (+6dBm)
Bandwidth:	20 Hz - 18 KHz
Total Harmonic Distortion:	0.05%
Signal-to-Noise Ratio (SNR):	80 dB (min.)

Wavelength

	1310 nm, Multimode
	1310 nm, Singlemode

Number Of Fibers

	1
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Connectors

Optical:	ST
Power:	Terminal Block with Screw Clamps
Audio:	Terminal Block with Screw Clamps

Electrical & Mechanical

Power:	AT: 12 VDC @ 220 mA
	AR: 12 VDC @ 220 mA
Number of Rack Slots:	1
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm.) (LxWxH)	
Surface Mount:	7.0 x 4.9 x 1.0 in., 17.8 x 12.5 x 5.1 cm
Rack Mount:	7.7 x 5.0 x 1.0 in., 19.6 x 12.7 x 5.1 cm
Shipping Weight:	< 2 lbs./0.9 kg

Environmental

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

Agency Compliance

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J



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Specifications subject to change without notice.

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AT/AR7400 Series