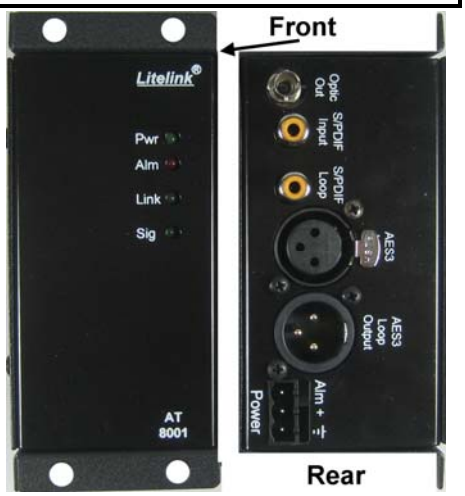
AES/EBU Digital Audio AT/AR-8001

For Interference-free Digital Audio Transmission



The ***LiteLink***® fiber transmission system consists of the AT-8001 transmitter and the AR-8001 receiver. The system converts conventional AES/EBU digital audio signals into modulated light for transmission over a fiber optic cable resulting in error free and interference free transmission over distances of several miles. The AT-8001 transmitter provides AES3 and S/PDIF loop through signals. The AR-8001 produces two AES3 outputs and two S/PDIF outputs.

Both multimode and single-mode fiber optic versions are available and installation requires simply plugging in the various cables. There are no user adjustments. Integral indicators also show the presence of digital audio signals as well as operating power making system troubleshooting simple.

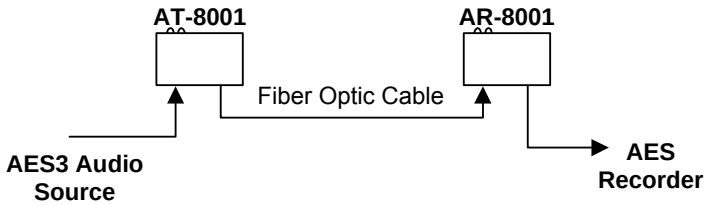
Technical Specifications

Protocol Supported

IEC- 60958 Type I (AES/EBU)	Balanced, XLR, 110Ω
IEC- 60958 Type II (S/PDIF)	Unbalanced, RCA, 75Ω
AES-3id	via RCA/BNC adaptor

Word Length	up to 24 bits
Sampling Rates Supported	32, 44, 48.1 and 96 KHz
Input Level	0.2 to 7 Vpp bal,1 Vpp unbal
Output Level	5 Vpp bal,1 Vpp unbal
Operating Wavelength	850, 1310 or 1550nm
Optical Loss Budget	0-10 dB
Optical Connectors	ST (multimode), FCPC (single-mode)
Operating Temperature	-35° to +75°C
Humidity	0 to 95% non-condensing
MTBF (per Mil-217F)	> 100,000 hours
Power Requirements	11-24 VAC/DC @ 200 mA
Physical Size (mm) (56.6)	5.0” (127) x 3.0” (76) x 2.23”

* Measured with 1Km of 62.5u multimode fiber.
Note that all specifications are subject to change without prior notice.



Typical Fiber Optic AES System

Important Features

- ***Supports Type I & II IEC-60958 protocols***
- ***Industrial temperature range and reliability***
- ***10 dB Loss Budget***
- ***Signal, Link, & Power Indicators***
- ***Stand-alone, DIN or Rack Mountable*** ***(same unit)***

Ordering Information

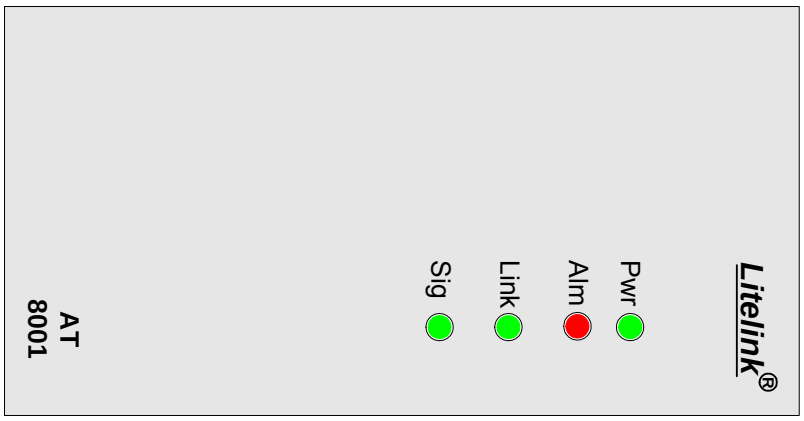
Transmitter	AT-8001-z
Receiver	AR-8001-z

“z” = Wavelength/Fiber

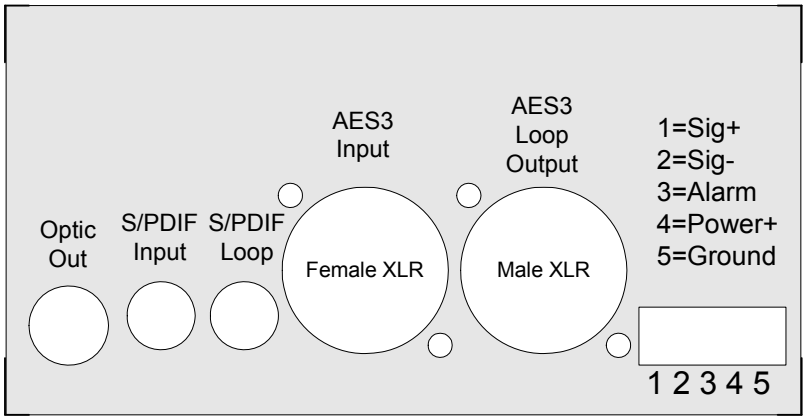
-1 = 850nm Multimode
-3 = 1310nm Multimode
-7 = 1310nm Single-mode
-9 = 1550nm Single-mode

For stand-alone operation order a PS-1205 power supply for each unit.

Liteway®
Fiber Optic Transmission Systems
www.Liteway.com
USA 516-931-2800

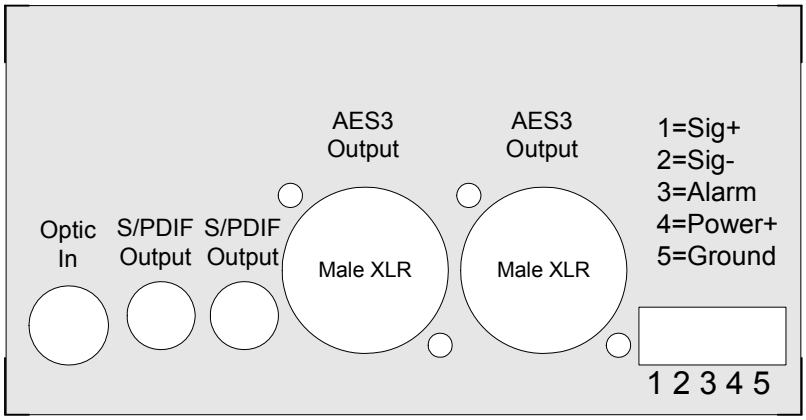


Transmitter Front Panel



Transmitter Rear Panel

Receiver Front Panel



Receiver Rear Panel