

Overview

The IFS A2300SHR series audio transceivers provide distribution of balanced line-level (2.2 V peak-to-peak) audio signals for emergency broadcast applications on two optical fibers. The modules allow for the configuration of a highly fault-tolerant emergency audio system. Utilizing a self-healing ring topology provides a redundant audio path via a counter rotating transmission on the second optical fiber which enables the system to provide circuit integrity in the event of a cable break. Both fault status indicating LED's and hard-wired contact outputs are provided for each individual communication path for supervision of proper systems performance. Models within this series are available for use with multimode or single mode optical fiber. Plug- and-play design ensures ease of installation requiring no electrical or optical adjustments. The modules are available in stand-alone only.

Application Examples

- Emergency Voice Evacuation
- Industrial Environments
- Campus Environments

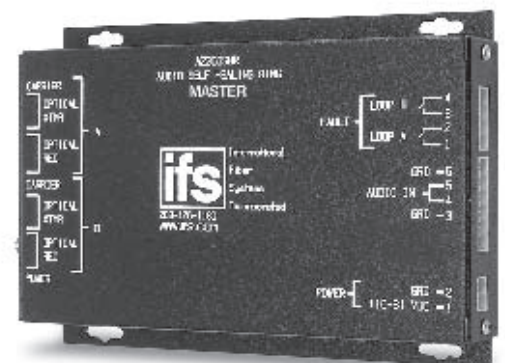
Emergency Broadcast System (EBS) Self Healing Ring

Provides distribution of balanced line-level audio signals for emergency broadcast applications on two optical fibers.



Standard Features

- FM Audio Transmission
- Up to 40 Remotes in Ring Topology
- 20 Hz – 20kHz Bandwidth
- 600 Ohms Audio Input Impedance
- Provides a High Fault-Tolerant Emergency Broadcast Audio Distribution System
- Transmits Balanced Line-Level Audio (2.2 Volts Peak-to-Peak)
- No In-field Electrical or Optical Adjustments Required
- Power and Communication Fault Status Indicating LEDs to Monitor System Performance
- TTL Output for Signal Fault Alarm
- Hot-Swappable Rack Modules
- Automatic Resettable Fuses on all Power Lines
- Distances up to 30 miles (49 km) without Repeaters
- Comprehensive Lifetime Warranty



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gesecurity.com/ifs

Specifications subject to change without notice

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Specifications

Audio	
Audio:	Balanced, simplex
Input/Output Signal:	2.2 volts pk-pk
Impedance:	600 ohms
Bandwidth:	20 Hz - 20 KHz
Signal-to-Noise Ratio (SNR):	60 dB
Wavelength	850 or 1310nm, Multimode 1310 nm, Single Mode
Number of fibers	2 In/2 Out
Connectors	
Optical:	ST
Power and Audio:	Terminal Block with Screw Clamps
Electrical & Mechanical	
Power:	
Surface Mount:	12 V @ 200 mA
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 2.5 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)†

†May be extended to condensation conditions by adding suffix '-C' to model number for conformal coating.

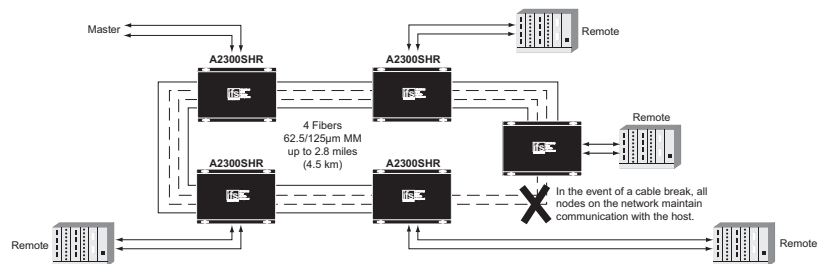
Agency compliance



Made in the USA

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

System Design



Ordering Information

	Part Number	Description	Fibers Required	Opt. Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	A2300SHR-M	Audio Self-Healing Ring Master (850 nm)			2.8 miles (4.5 km)
	A2300SHR-R	Audio Self-Healing Ring Remote (850 nm)	2 In/2 Out	16 dB	
	A2320SHR-M	Audio Self-Healing Ring Master (1350 nm)			10 miles (16 km)
	A2320SHR-R	Audio Self-Healing Ring Remote (1350 nm)			
Single Mode 9/125µm	A2325SHR-M	Audio Self-Healing Ring Master (1350 nm)	2 In/2 Out	17 dB	30 miles (49 km)
	A2325SHR-R	Audio Self-Healing Ring Remote (1350 nm)			
Accessories ^o	PS-12VDC 12 Volt DC Plug-in Power Supply (Included) PS-12VDC-230 12 Volt DC Plug-in Power Supply, 230 VAC Input (Included if specified at time of order)				
Options	Add '-C' for Conformally Coated Printed Circuit Boards (Extra charge, consult factory)				

* 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.

