

## Fibox Digital Fiber-Optic Transmission Systems

### THE FUTURE IS HERE.

The introduction of the IMS Transmission System marks a new level of modularity and flexibility for the Fibox family of Digital Fiber-Optic Transmission System products. All the proven benefits of the existing Fibox FBAI and FBAO 20-bit Analog modules plus the added flexibility of AES Digital Audio and SMPTE 259M Digital Video make the IMS Transmission System the most flexible Fibox ever. IMS is perfect as a stand-alone 1RU module set for fiber transmission of (8) AES Digital Audio signals (16 channels of audio). Optionally, up to (6) Fibox FBAI-SL and FBAO-SL modules can be slaved to the IMS for a mixture of Analog and Digital Audio plus Digital Video in one flexible transmission package.

### IMS SYSTEM - WHAT ARE THE ADVANTAGES?

- No line loss
- No ground loops or hum
- Inherent immunity to EMI and RFI
- Transmission distances up to 4km (2.5 miles)
- Modular and expandable design
- Mixed 20-bit Analog or AES Digital I/O
- Easy installation and field set-up

### WHAT DO YOU GET?

IMS-Tx / IMS-Rx are a 1RU module pair containing (8) 110 ohm AES Digital Audio ports, Data interconnect ports for up to (6) 20-bit Analog Fibox FBAI-SL / FBAO-SL modules and a single external plug-in module slot for the VFL300T/R SMPTE 259M Digital Video transmission option. IMS is perfect as a stand-alone transmission system for AES Digital Audio. External sync input and output is provided as well as user-selectable sample-rates.

The 12VDC power supply for the IMS is external, and must be provided or purchased separately. The SSI MARKVI PSU is an excellent solution to this powering requirement.

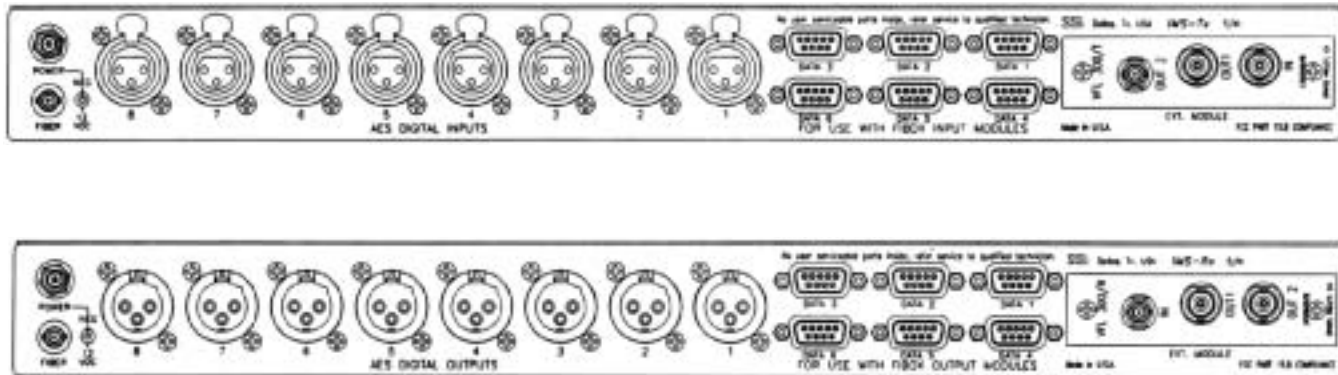
### TRANSMISSION SYSTEM FEATURES

- 8 AES Digital Audio signals (16 audio channels) at selectable sample-rates of 32, 44.056, 44.1 and 48 kHz. In the External Sync position, synchronization can be obtained from any valid AES source from 25 to 50 kHz.
- A maximum of 6 Analog Fibox's can be connected to the IMS using individual link cables. These Fibox's can be slave models (FBAI-SL / FBAO-SL). When a Fibox is connected to a particular IMS AES channel, that channel cannot be used to carry an AES signal. Channels 7 and 8 are dedicated, and are always available for AES signals. Please note that 1 IMS AES channel = 2 discrete audio channels.

### DIGITAL VIDEO MODULES

- 1 SMPTE 259M Digital Video signal (up to 360 Mbit/sec) can be transmitted per IMS system. For this option, the VFL300/T and VFL300/R module pair must be purchased and plugged into the external module ports in the IMS chassis. A second fiber is required for the video transmission portion of the IMS to be operative. Video transmission in the IMS is separated from the audio transmission portions of the system, thereby eliminating synchronization requirements between the video and audio which otherwise could be a problem. Embedded AES signals within the SMPTE 259M bitstream are unaffected by the transmission system.
- Transmission of the MADI signal and other high-speed digital formats is easily accomplished within the IMS System. Contact the factory for details.





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