

## **Datasheet : F-4A-XLR-TX/RX**



### **XLR Audio over Fiber**

#### **4 channel Balanced XLR Audio over single mode or multimode fiber**

The Thor Fiber XLR audio over fiber units are able to send balanced audio over fiber much further than traditional copper. Our Audio Interface with XLR kit has both a transmitter and receiver unit. Available options are for 2, 4, 8, 16 or 32 XLR inputs/outputs can be used on a single transmitter unit and sent over fiber to the receiver unit that also has an equal number of XLR outputs. The fiber allows the signal to be sent over a long distance without losing any quality in the signal. The kit is 16-bit digitally encoded broadcast quality balanced audio over one multi-mode or single-mode optical fiber. Thor XLR Audio Splitters are typically used in applications for Rental, Staging, Concerts, Theater, Churches, Stadiums, Theme Parks, Broadcast/Studio, Intercom, CCTV audio and Professional AV applications. Popular devices to use in conjunction with the XLR transmitter and receiver are: XLR Audio Mixers, Digital Audio Recorders with XLR IN/OUT and Audio signal Splitter with XLR. They are available for stand-alone or rack-mount installations. Our standard fiber connectors are ST/PC, but it could also be ordered as SC/PC or FC/PC. Basic units support up to 20Km of single mode / 3000 multimode fiber, other modes are available - 40km, 80km, 120km.

**Features:**

- 3-Pin Balanced XLR Audio input/output
- Uni-directional 2 or 4 or 8 or 16 or 32 Channel
- Bi-directional over single fiber available on 2 and 4 Channel model
- 12V DC Power input
- Single mode fiber up to 20km, Multimode fiber up to 3000feet
- Easy to Use, Plug and Play Units

**Model Selection:****Uni-Directional Models:**

**F-2A-XLR-TX/RX** - 2 XLR Balanced Audio over Fiber Transmitter / Receiver kit up to 20KM singlemode / 3000feet multimode -Stand alone ( portable)

**F-4A-XLR-TX/RX** - 4 XLR Balanced Audio over fiber Transmitter / Receiver kit up to 20KM singlemode / 3000feet multimode - Stand alone ( portable)

**F-8A-XLR-TX/RX-RM** - 8 XLR Balanced Audio over fiber Transmitter / Receiver kit up to 20KM singlemode / 3000feet multimode 19"Rack Mountable

**F-16A-XLR-TX/RX-RM** - 16 XLR Balanced Audio over fiber Transmitter / Receiver kit up to 20KM singlemode / 3000feet multimode (special order) 19"Rack Mountable

**F-32A-XLR-TX/RX-RM** - 32 XLR Balanced Audio over fiber Transmitter / Receiver kit up to 20KM singlemode / 3000feet multimode (special order) 19"Rack Mountable

**Bi-Directional Models:**

**F-2A-B-XLR-TX/RX** - Stand alone ( portable) 2 Bi-directional XLR Balanced Audio over 1 fiber Transmitter / Receiver (transceivers) kit up to 20KM singlemode / 3000feet multimode

**F-2A-B-XLR-TX/RX-RM** 2 Bi-directional XLR Balanced Audio over 1 fiber Transmitter / Receiver (transceivers) kit up to 20KM singlemode / 3000feet multimode - 19"Rack Mountable form factor

**F-4A-B-XLR-TX/RX-RM** - 4 Bidirectional XLR Balanced Audio over 1 fiber Transmitter / Receiver (transceivers) kit up to 20KM singlemode / 3000feet multimode 19"Rack Mountable form factor

**PN: F-4A-XLR-TX/RX-XX ( XX= 40,60,80,120) 40km, 60Km, 80km 120km models available for all XLR Audio products (special order)**

**Specifications:**

<b>Optical</b>	
Wavelength	1310nm or 1310/1550 for bi-directional models
Output Power	-8dBm (+-2db)
Optic fiber	50/125u multimode, 62.5/125u multimode, 9/125u single mode
Rx sensitivity	-25dBm
Optical connector	ST/PC
Distance	20Km for singlemode and 0~2KM (MM), 40, 80 120Km - model specific
<b>Balanced Audio</b>	
Number of Channels	2-32 Input on the TX 2-32 Output on the RX
Input Connector	XLR (female)
Output Connector	XLR (male)
Input / Output Impedance	600 Ohm
Input capacitance LINE inputs	10 pF
Max input/output voltage	4.0Vp-p (6db)
Frequency Response	10 Hz - 20kHz @±3dB
Sample Rates From	48kHz
SNR	> 80dB
Dynamic bandwidth	101dB
Total harmonic distortion (THD)	-90dB
<b>Electrical &amp; Mechanical</b>	
Input Power Requirements:	DC 5V@2A
Power Adapter:	AC 90V~240V
Power Consumption:	< 5W
Stand-Alone Dimensions:	168mm × 154mm × 45mm ( L: 6 3/4" D 4 1/2" H: 1 3/4" for the mounting holes)
19"Rack Mountable	19"x9"x1.75"
Shipping Weight:	(Transmitter & Receiver ) 2.5kg
<b>Environmental</b>	
Operating Temperature:	-20°C ~ +75°C
Storage Temperature:	-40°C ~ +85°C
Relative Humidity:	0% ~ 95% (non-condensing)
MTBF:	>100,000 hours

**Drawing:**

