

Data Sheet: F-HDMI



Thor F-HDMI-SMSC fiber extenders eliminate the limitations of traditional multimode or CAT5 HDMI extenders. This is a complete kit with transmitter and receiver for transparent HDMI connections over a single strand of



SM-FOC up to 25km. Thor HDMI extenders offer full bi-directional signal transport between the transmitter and receiver. This allows return path information from the sink back to the source for services such as HDCP status, supported screen resolutions, Electronic display information, or any other information sent from the sink device at the receiver back to the source device at the transmitter. Thor also provides pre-terminated and connectorized singlemode fiber cables at any length. Thor F-HDMI-SMSC fiber optic HDMI systems allow simple and inexpensive video links over any distance. With 6.25Gbps transmitter optics the video data can be sent at full rate without encoding or reducing quality. This allows video connections operating at 1080p60 at less than 10ms latency over 25km. With such a low delay, these extender kits satisfy all live video quality and latency requirements.

Typical F-HDMI Application



Technical Specifications

| | | | |
|----------------------|--------------------------------|---------------------------|----------------|
| Resolution: | 720,1080, 800x600 to 1920x1200 | Input Optical Modulation | <15 W |
| Interface: | HDMI Interface with HDCP | Output Optical Modulation | 180 W |
| Audio Mode: | Unbalanced Stereo | Relative Speed | -116 DB/Hz |
| Input/Output | 10k/50 Ohms Stereo | Return Wave Loss | <10 dB |
| Max input/output | 5 dBu/4Vpp Stereo | Dimensions (mm) | 170x100x35 |
| Frequency Response | 20Hz – 20kHz | Power Supply Max. | 12 VDC @ 1.5 A |
| Signal Noise Ratio | >70 dB @ 1 kHz | Working Temp. | 0 – 50 |
| Interface | 3.5 mm | Relative Humidity | 0 – 95 |
| Optical Wavelength | 1310 nm | | |
| Receiver sensitivity | -23 dBm | | |
| Data Rate | 1.65 GHz | | |