



## Product Description

**VILINK new HDMI Video equipment:** The VILINK HF340 series is a fiber optic digital transmitter/multiplexer for transmitting real time uncompressed HDMI video signal and digital stereo audio over a 10 gigabits SFP single mode fiber optic cable. This robust transmission platform is designed for real time video broadcasting and video Conferencing, it utilizes the exiting fiber optic cables in the exiting system to deliver high quality video signal and stereo audio for high definition digital video system.

*The HF340 series is fully recognized all high definition composite HDMI video input formats including 1920x1080P @ 24/25/30/50/60Hz, 1920x1080i @ 50/60Hz 1080P and 1280x720 @50/60 Hz. The stereo audio input / output can be specify by via HDMI connectors or independent RCA connectors with 600 ohms impedance. The Multiplexer/De-Multiplexer also offers a fully serial digital video encoding/decoding of real time HDMI video, providing adjustment free operation over a wide operational range for distances from back-to-back to 30 Km, our digital signaling offers superior receiver output stability, which is unaffected by changes in fiber path attenuation due to aging or splicing points. The extended temperature capability of the HF340 satisfies very critical applications requiring high quality video performance with high reliability. In addition, the HF340 provides Auto Signal Compensation (ASC) allowing low signal distortion compensation over long distance transmission.*

*Applications include Video Broadcasting, Video Conferencing, City and Highway Traffic Monitoring, METRO and Railroad Monitoring, Oil & Gas Monitoring, campus Security Monitoring, Airport Security System, Military Security Systems or any application requiring HD quality video performance.*

## Features

- Real time Uncompressed HDMI Video Transmission
- Full 1080P HDMI Over Fiber
- HDMI Audio Input / Output
- Independent Stereo Audio Connection
- Stereo Audio Output On The Receiver
- Single Mode Fiber (10G SFP)
- Up to 30 Kilometers @ 1310nm SM
- HDMI Output at 720P or 1080P
- Compliance HDCP 1.2 and HDMI 1.3
- Support DDC, CEC, HPD
- + 5VDC Power Adapter

## Applications

- Video Broadcasting,
- Video Conferencing
- City and Highway Monitoring
- Metro and Railroad Monitoring
- Oil & Gas Pipeline Monitoring
- Airport Security Systems
- Utility Systems
- Military Applications
- Premise Networks
- Any Digital HD Video Monitoring Requirement

## Ordering Information

Model	Descriptions
HF340T03	1 Channel HDMI, Stereo Audio (TX), 10G SFP, SM 30KM, +5VDC
HF340R03	1 Channel HDMI, Stereo Audio (RX), 10G SFP, SM 30KM, +5VDC

\*\*\* Please Consult Factory for Additional Model Numbers\*\*\*

<b>System:</b>	
Error Rate	1 in 10 <sup>12</sup> or Better
Indicators	PWR, Video Active, Link
<b>Optical:</b>	
SFP Module	10 Gigabits
Transmitter	Lasers
Tx	1310nm / 1550nm
Rx	1310nm / 1550nm
Receiver	PIN
Tx	1310nm / 1550nm
Rx	1310nm / 1550nm
Power Budget	15 dB @ SM
Connector	LC/PC
<b>Environment:</b>	
Operating	-34 <sup>o</sup> C to +74 <sup>o</sup> C
Storage	-40 <sup>o</sup> C to + 95 <sup>o</sup> C
Humidity	98% Non-Condensing
<b>Power:</b>	
Standalone	+5 VDC

<b>HDMI Video Interface:</b>	
Channel	1 Plus 1 Loop Channel
Video Protocol	HDCP 1.2, HDMI 1.3
Video Format	IEA / CEA 861
Resolution	1920x1080P @ 24/25/30/50/60Hz 1920x1080i @ 50/60Hz 1280x720P @ 50/60Hz
Video Input Signal	0.5 V – 1.0 V Vp-p
DDC Signal Level	5.0 V p-p
Indicator	Video Active
Connector	HDMI Type A 19 Pins Male Plug
<b>Audio Interface:</b>	
Channel	1 Stereo
Audio Input	600 Ohms Unbalanced
Frequency Response	10Hz to 20 KHz
SNR	>65 dB Weight
Connector	Via HDMI Port and RCA Jacks
<b>Physical:</b>	
Dimensions	
Standalone	5.6" x 5.5" x 1.5"

## Application



**Typical HF340T & HF340R Application**