

HDMI Optical Extender

VE882 / VE892

- The VE882 / VE892 is an Optical HDMI Extender that overcomes the length restriction of standard HDMI cables by using optical fiber to send high-definition audio and video signals over large distances.

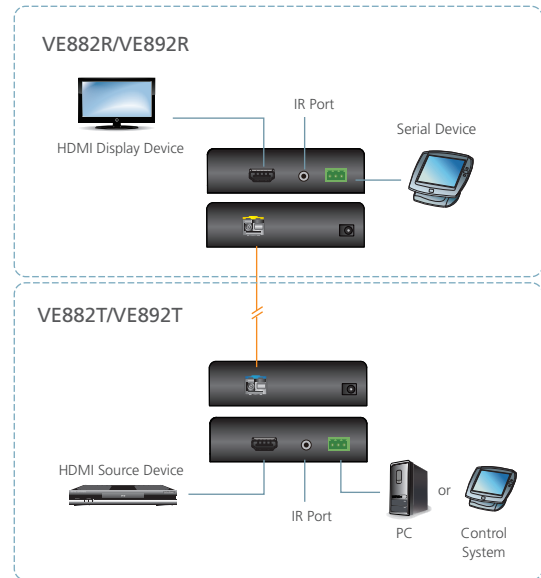
The VE882 / VE892 accepts an audio-video stream from a local source and serializes the data to pass it over a single 3.125 Gbps optical link (for resolutions up to 1080p @ 60 Hz at 24-bit color depth).

The VE882 / VE892 can also extend the IR remote control and transfer RS-232 (up to 115 kbps) in both directions, allowing you to connect serial devices such as touch screens and barcode scanners.



Features

- Extends the transmission range of HDMI, IR and RS-232 signals using one fiber optic cable
- Very long distance transmission – up to 600 m for VE882, up to 20 km for VE892**
- HDMI (3D, Deep Color), HDCP-compatible – signaling rates up to 3.125 Gbits
- Superior video quality – up to 1080p @ 60 Hz
- Supports full frequency IR signal from 30KHz to 60 KHz (the IR receiver cable included with the package only supports 30 KHz to 56 KHz)
- Uses one fiber optic cable to connect the local and remote units
- Supports widescreen formats
- Built-in 8KV/15KV ESD protection
- Features RS-232 serial port for connecting peripherals such as touch screens, barcode scanners, etc.
- Supports bi-directional IR signal transmission (one way at a time)
- Rack-mountable
- Hot-pluggable



Specifications

Function		VE882T/VE892T	VE882R/VE892R
Connectors	HDMI In	1 x HDMI Type A Female (Black)	N/A
	HDMI Out	N/A	1 x HDMI Type A Female (Black)
	Optical In/Out	1 x LC Simplex Connector (SFP) (Bi-directional)*	
	RS-232	1 x Terminal Block, 3 pole	
	IR	1 x Mini Stereo Jack (Black)	
	Power	1 x DC Jack (Black)	
Fiber Optics	Operating distance**	VE892: 20 km with single mode (SM) fiber VE882: 600 m with single mode (SM) fiber	
	Wavelength	1310/1550 nm for SM	
	Data Rate	Single fiber: 1080p / 60Hz (24-bits, 3.125 Gbps)	
LEDs	Power/Link	1 (Green)	
Power Consumption		DC 5.3 V, 5.6 W	DC 5.3 V, 5.1 W
Environment	Operating Temp.	0° to 50° C	
	Storage Temp.	-20° to 60° C	
	Humidity	0 - 80% RH, Non-condensing	
Physical Properties	Housing	Metal	
	Weight	0.42 kg	0.42 kg
	Dimensions (L x W x H)	14.69 x 10.30 x 3.00 cm	14.69 x 10.30 x 3.00 cm

Note:

* The optical fiber modules are color-coded accordingly:

- VE882T - Blue • VE882R - Yellow • VE892T - Blue • VE892R - White

- **1. Operating distance is approximate. A typical maximum distance may vary depending on factors such as fiber type, bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.
- It is recommended that you use a Single Mode optical fiber cable that conforms to IEC 60793- 2-50 B.1.1 or ITU-T G.652.B specifications.
 - The VE882 / VE892 supports OM3 optical fiber which can extend the transmission distance up to 300 meters.

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