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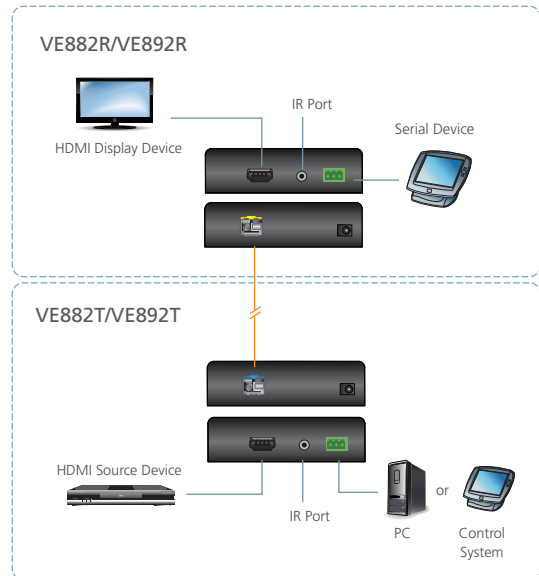
The VE882 / VE892 accepts an audio-video stream from a local source and serializes the data to pass it over a single 3.125 Gbps optical link (for resolutions up to 1080p @ 60 Hz at 24-bit color depth).

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.

HDMI
HIGH DEFINITION MULTIMEDIA INTERFACE

Blu-ray | SUPPORTS PS3 | SUPPORTS 3D | A/V In HDMI | A/V Out HDMI | RS-232 Channel

Extension 600 meters (VE882) | Extension 20 km (VE892) | IR Channel | HDCP | FIBER

VE882R/VE892R
HDMI Display Device — IR Port — Serial Device

VE882T/VE892T
HDMI Source Device — IR Port — PC or Control System

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.
2. It is recommended that you use a Single Mode optical fiber cable that conforms to IEC 60793- 2-50 B1.1 or ITU-T G.652.B specifications.
3. The VE882 / VE892 supports OM3 optical fiber which can extend the transmission distance up to 300 meters.