



## DVM-1014 Series

### LCx4 HD DVI Optical Fiber Extender

#### *Description*

LCx4 HD DVI Optical Fiber Extender support extends DVI up to 6600 feet (2000 meters) using a 4-Coe 9/125µm single mode fiber optic cable. It supports resolutions up to 1080p Full HD and HD lossless audio formats like LCPM 7.1 audio, Dolby® Digital Plus, Dolby® TrueHD, and DTS-HD® Master Audio™. Optical signal transmission provides galvanic isolation and immunity to electromagnetic interference compared to similar copper based extension modules.

The Extender are constituted of three parts as follows;

- One Sender converting electrical to optical signals, model name: DVM-1014-TX-XXX
- One Receiver converting optical to electrical signals, model name: DVM-1014-RX-XXX
- Two AC Adaptors to 110V-240V with DC 5V 1A outlet

#### *KEY FEATURES*

- ♦ Compatible with computers and video sources (DVD players, etc) with female DVI output connectors.
- ♦ Single link DVI signal.
- ♦ Long distance transmission of digital graphic signal corresponding to T.M.D.S

- ◆ Compatible with DDWG DVI 1.0 standard.
- ◆ Pseudo EDID support
- ◆ R, G, B, Clock signal is transmitted separately by Single-mode / multi-mode optical fiber
- ◆ Optical fibers immune to signal noise.
- ◆ Supports computer resolutions to 1920x1200 and HDTV resolutions to 1080p.
- ◆ Up to 2km by SMF.

## Applications

- ◆ Digital Signage
- ◆ LED signboards in streets and in stadiums
- ◆ Medical Imaging Equipment
- ◆ Airplane On-board Video System
- ◆ Home Theater
- ◆ TV Broadcast Station
- ◆ Conference Room Video Equipment

## SPECIFICATIONS

Product Name	DVM-1014-TS-XXX/ DVM-1014-TM-XXX	DVM-1014-RS-XXX/ DVM-1014-RM-XXX
Description	DVI Optical Fiber Extender Sender(Source)	DVI Optical Fiber Extender Receiver(Sink)
signal type	Single link DVI	
DVI Connector	DVI-D 18+1 Plug	
Input Signal	TMDS Signal (DVI 1.0 Standard)	
Output Signal	TMDS Signal (DVI 1.0 Standard)	
Maximum pixel clock	165 MHz	
Maximum data rate	4.95Gbps (1.65Gbps per color)	
Supported Resolution& Distance	Multi-mode optical fiber 300m	Single-mode optical fiber 2000m
	SXGA 1280 x 1024 @ 700m (2300 feet)	SXGA 1280 x 1024 @ 500m~2km <sup>[1]</sup>
	UXGA 1600 x 1200 @ 500m (1650 feet)	UXGA 1600 x 1200 @ 500m~2km <sup>[1]</sup>
	WUXGA 1920 x 1200 @ 330m (1000 feet)	WUXGA 1920 x 1200 @ 500m~2km <sup>[1]</sup>
Optical Converter	850nm Wavelength TOSA	850nm Wavelength ROSA
	1310nm Wavelength TOSA	1310nm Wavelength ROSA
No. of Ferrules	4 simplex LC	4 simplex LC
LED indicator	Power	Power
External Power	Input: 100-240 VAC, 50-60 Hz	
Requirement	Output: 5V DC, 1A	
Power Consumption	2.8 Watt (Max)	2.5 Watt (Max)
Operating Temperature	0°C to 50°C (32°F to 122°F)	
Storage Temperature	-20°C to 70°C (-4°F to 158°F).	
Humidity	5% to 90% (non-condensing)	
Enclosure type	Alufer	
Dimension(mm)	40.5 x 60.5 x 12.5 (WxDxH)	

Note[1]: If the transmission distance is over 2 km will be using DFB LD.

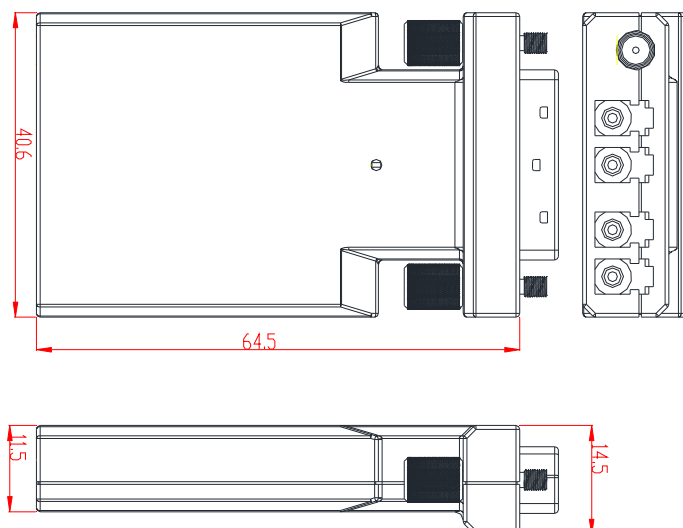
### Maximum Ratings

Parameter	Symbol	Minimum	Maximum	Units
Supply Voltage	VCC	-0.3	6	V
Operating Temperature	Top	0	70	°C
Storage Temperature	Ts	-40	85	°C
Storage Relative Humidity	Hs	10	85	%RH

### Recommended Operating Conditions

Parameter	Symbol	Minimum	Maximum	Units
Supply Voltage	VCC	4.75	5.25	V
Operating Temperature	Top	0	50	°C

### Drawing ( mm )



### Ordering Information

Part Number	Description
DVM-1014-TS-331	Sender :850nm,4 simplex LC, 330m, Multi-mode optical fiber,
DVM-1014-RS-331	Receiver :850nm, 4 simplex LC, 330m, Multi-mode optical fiber,
DVM-1014-TS-202	Sender :1310nm,4 simplex LC, 2000m, Multi-mode optical fiber,
DVM-1014-RS-202	Receiver :1310nm, 4 simplex LC, 2000m, Multi-mode optical fiber,