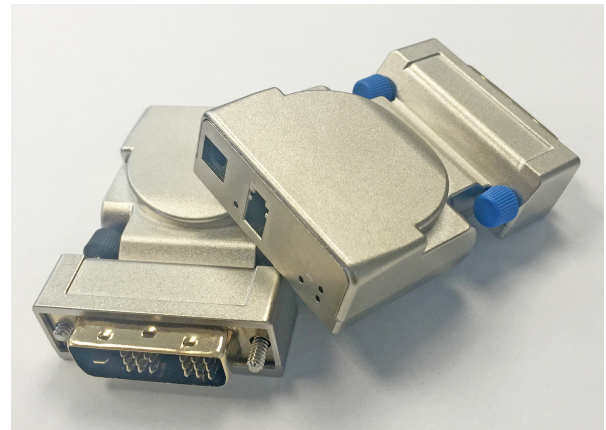


Optical DVI Extender Module

Key Features

- ❑ Compact Size for Optical DVI Extender
- ❑ Single LC Receptacle Optical Interface
- ❑ Single-Mode and Multi-Mode Fiber Application
- ❑ Support Long Distance and High Resolution Image Transmission
- ❑ Support Video Resolution up to 1920x1200 / 60Hz or 1080p for HD TV
- ❑ Self-EDID Programming Feature
- ❑ Indicate the Transmit and Receiver Signal Status
- ❑ Single + 5 V Power Supply
- ❑ Metal Enclosure and Low Power Consumption
- ❑ RoHs Compliant



Description

The VSA-100-TR Optical DVI Extender is designed to transmit the DVI signals to long distance through two fibers. It can be used not only multi-mode fiber but also single-mode fiber as system's requirement. The EDID learning technology makes VSA-100 more flexible and easier to installation for any variable resolution display. This Extender integrates all LED indicators, power supply input and Self-EDID button hole on the front panel. It will be easy and convenient to indicate the link status and to operate module.

Product Summary

Model Name	Voltage	Self-EDID	Max Resolution	Temp.	Distance
VSA-100-Tx	+5V	With	1920x1200 1920x1080p	0 C~+50 C	500m(Multi-Mode OM3 Fiber) 1500m(Single-Mode G.652D Fiber)
VSA-100-Rx	+5V	With	(60Hz)		

Vitex LLC

210 Sylvan Ave, Suite 25
Englewood Cliffs, NJ 07632
(201) 296-0145
www.vitextech.com
info@vitextech.com

General Characteristics

Parameters	Symbol	Min.	Typ.	Max.	Units	Note
Operating Temperature	T_C	0	-	50	°C	
Storage Temperature	T_s	-20	-	70	°C	
Supply Voltage	V_{CC}	--	+5	--	V	

Power Adapter Specification

Parameters	Symbol	Specification	Units	Note
External Power Supply	V_P	100VAC~240VAC / 50~60Hz	V	
Power Supply Input (Adaptor)	V_{AIN}	+5V DC / 0.8A	V	

Optical DVI Extender Specifications

($V_{AIN}=+5V$; $T_c= 0oC\sim 50oC$ unless specified)

Parameters	Symbol	Specification
Signal Format	SF	DVI
Maxim Graphic Resolution	R_{MGR}	1920x1200 / 60Hz 1920x1080p / 60Hz 1600x1200 / 60Hz
Distance through Fiber (1)	D_s	500m (Multi-Mode OM3 Fiber) 1500m (Single-Mode Fiber)
DDC Protocol		Self-EDID Programming
DVI Connector	-	DVI-D (18+1) Male
Dimension (H x W x D)	-	14.6mm x 39.0mm x 53.9mm

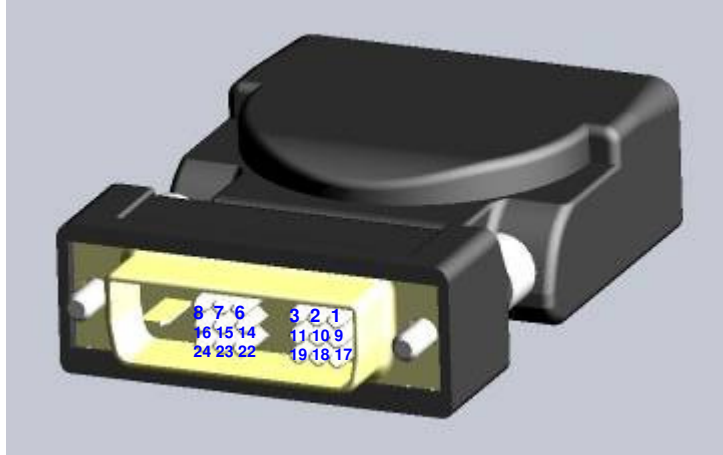
Notes:

- (1). Multi-Mode OM3 Fiber : Fiber Core Dimension (50/125 μ m) , Bandwidth (1300nm : 500MHz*km)
Single-Mode Fiber : Fiber Core Dimension (9/125 μ m)

Vitex LLC

210 Sylvan Ave, Suite 25
Englewood Cliffs, NJ 07632
(201) 296-0145
www.vitextech.com
info@vitextech.com

DVI-D (18+1) Male Connector PIN Definition

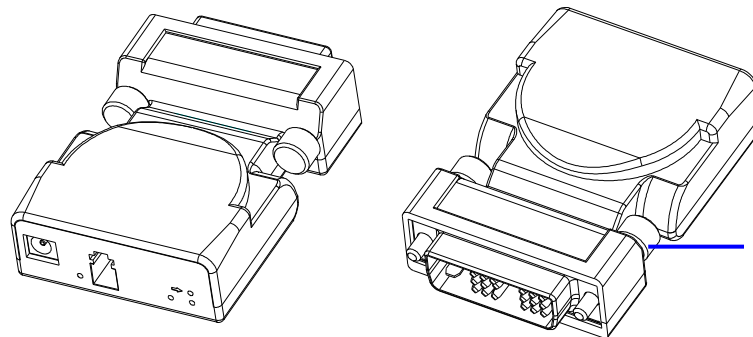
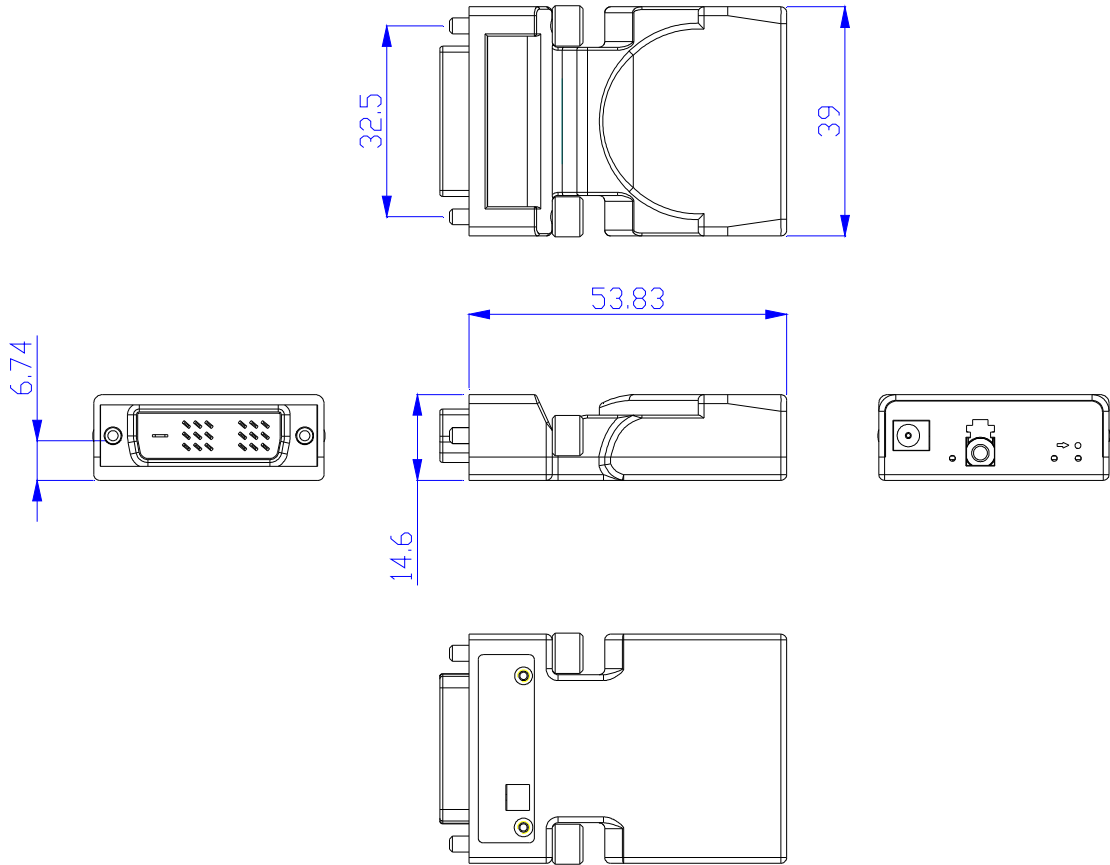


Pin Description

Pin	Name	Note
1	T.M.D.S Data 2-	
2	T.M.D.S Data 2+	
3	T.M.D.S Data 2 Shield	
6	DDC Clock	
7	DDC Data	
8	No Connect	
9	T.M.D.S Data 1-	
10	T.M.D.S Data 1+	
11	T.M.D.S Data 1 Shield	
14	+5V	
15	Ground	
16	Hot Plug Detect	
17	T.M.D.S Data 0-	
18	T.M.D.S Data 0+	
19	T.M.D.S Data 0 Shield	
22	T.M.D.S Clock Shield	
23	T.M.D.S Data Clock+	
24	T.M.D.S Data Clock-	

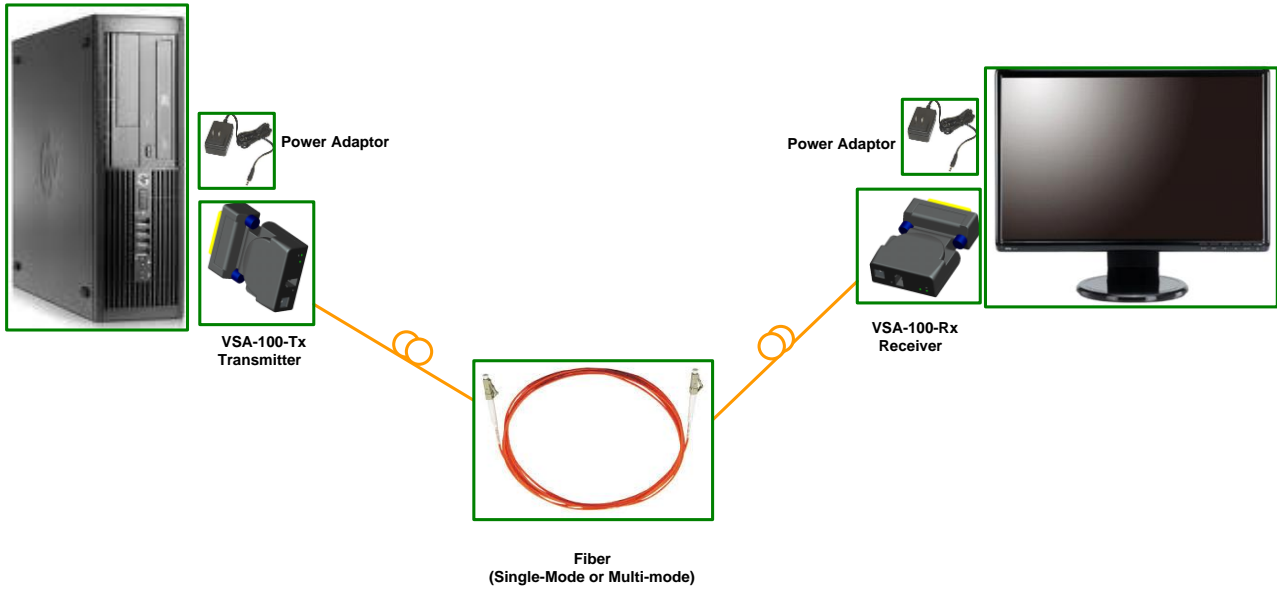
Mechanical Specifications

(Units in mm)



Color of Screw Cap
VSA-100-Tx : Blue
VSA-100-Rx : Black

Optical DVI Extender – System Connection



Ordering Information

VSA-100-xx
└─> TX or RX (Transmitter or Receiver)

Vitex LLC

210 Sylvan Ave, Suite 25
Englewood Cliffs, NJ
07632 (201) 296-0145
www.vitextech.com
info@vitextech.com