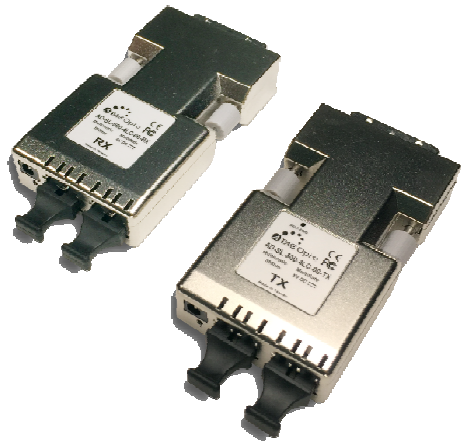




DVI Extender via 4 fiber channel LC Duplex Connector

Self-EDID Programming

Extends DVI connection up to 500 meters



Description

DVI (Digital Visual Interface) recently becomes an popular interface between monitor and PC. Electrical signal limits the transmission length and quality. APAC DVI extender helps DVI to transmit far away via optical fiber. The self-EDID programming feature is also built-in to make the field installation more easy and flexible.

Features

- Long distance image transmission
- High resolution and quality
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1
- CE/FCC certifications for EMI/RFI

Application

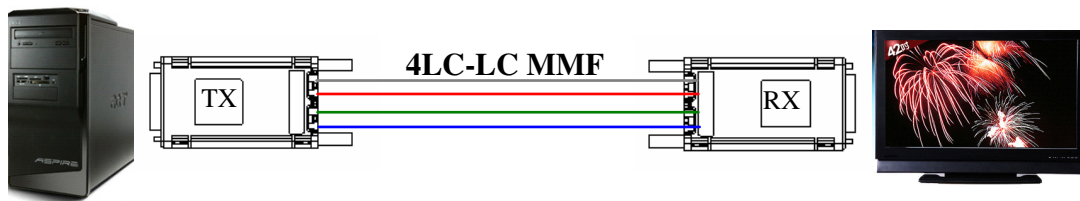
- Remote monitor for traffic, industrial and military control
- LCD, projector and plasma display connection
- Large video wall system
- Multi-monitors for advertising

Ordering information

Part Number	Description	Note
AD-SL-500-4LC-T- <u>XX</u>	Transmitter side	
AD-SL-500-4LC-R- <u>XX</u>	Receiver side	
AD-SL-500-4LC- <u>XX</u>	Transmitter + Receiver	
	<u>XX</u>	00: US Plug for AC adaptor 01: EU Plug for AC adaptor 02: BS Plug for AC adaptor 03: AU Plug for AC adaptor

* This product does not include optical fibers

Application





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Specification

PARAMETER	SPECIFICATION	NOTE
Maximum resolution	1920 × 1200 (16:10)	
	1600 × 1200 (4:3)	
	1920 × 1080p (16:9)	
Maximum transmission distance	500m	50/125 μ m multimode fiber
EDID support	Self-EDID programming	
HDCP compliant	N/A	
Operating voltage	DC 5V	
Supply current	180mA	TX module
	180mA	RX module
Optical connector	4LC connector	
Recommended fiber	50/125 μ m multimode fiber	Use 62.5/125 μ m multimode fiber may reduce the maximum transmission distance.
Operating temperature	0 °C - 70 °C	
Storage temperature	-20 °C - 85 °C	
Dimension	TX unit : 68.7 x 39.3 x 15.0	L × W × H (mm)
	RX unit : 68.7 x 39.3 x 15.0	
Weight	TX unit : 96 g ; RX unit : 96 g	

Default EDID resolution setting

TIMING ITEMS	RESOLUTION
Established Timings :	720 x 400 @70Hz ; 640 x 480 @60Hz ; 640 x 480 @72Hz
	640 x 480 @75Hz ; 800 x 600 @60Hz ; 800 x 600 @72Hz
	800 x 600 @75Hz ; 1024 x 768 @60Hz ; 1024 x 768 @70Hz
	1024 x 768 @75Hz ; 1280 x 1024 @75Hz ; 1152 x 870 @60Hz
Standard Timings : (4:3,5:4,16:9,16:10 rate)	1280 x 1024 @60Hz ; 1280 x 960 @60Hz ; 1152 x 864 @75Hz
	1600 x 1200 @60Hz ; 1280 x 720 @60Hz ; 1440 x 900 @60Hz
	1680 x 1050@60Hz
Detailed Timings :	1360 x 768@60Hz ; 1920 x 1080@60Hz ; 1920 x 1200@60Hz



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Adaptor Specification

PARAMETER	SPECIFICATION	NOTE
Input	100~240 VAC, 50~60 Hz	
Output	DC 5V, 2A	
DC Jack	Inside 5V / Outside ground	



US Plug



EU Plug



BS Plug



AU Plug



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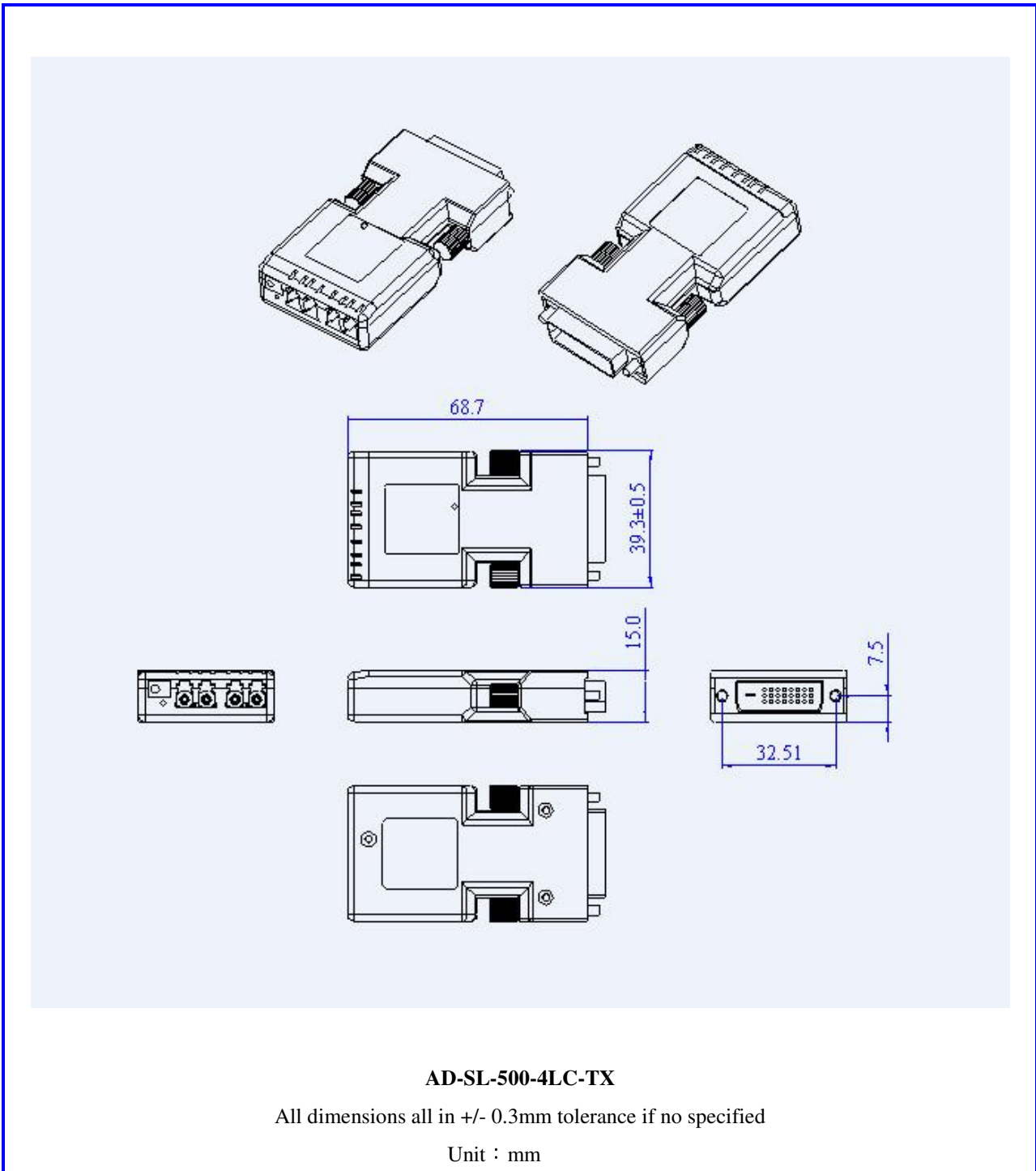
Requirements

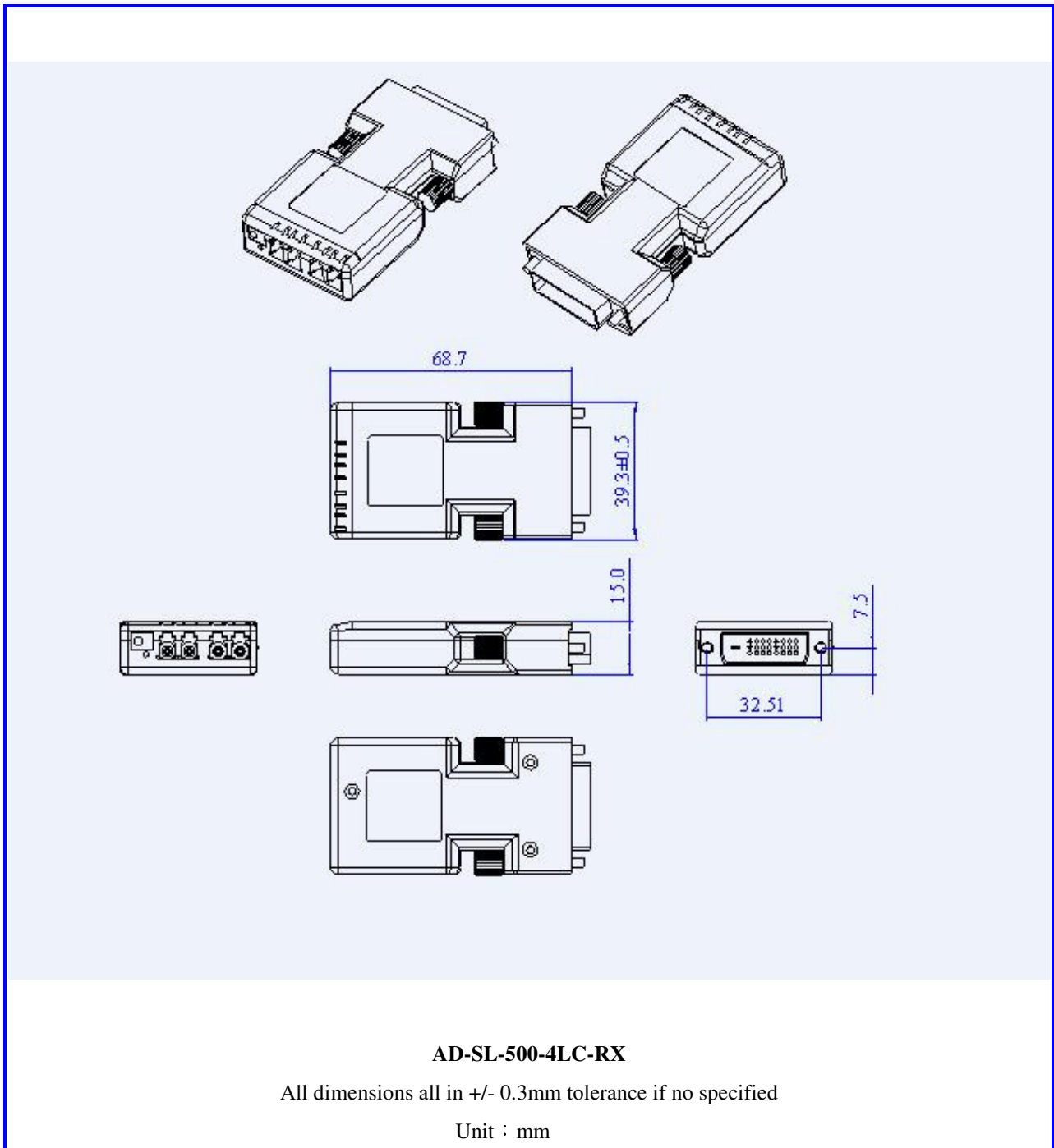
- DVI PC or DVI signal source (Transmitter)
- DVI monitor or projector (Receiver)
- 100~240 VAC, 50~60 Hz, 0.2A

Self-EDID Programming Function

The EDID in a display can be read and restored by just plugging it to the display. This self-EDID programming feature makes the installation of AD-SL-500-4LC more easy and flexible at any variable resolution display systems. If the display resolution can not meet default EDID stored in transmitter module, user can just follow page7 to perform this function.

Dimensions





Safety Regulation

CE and FCC approved.



Installation

Please follow the installation procedure below. If the sequence is not correctly, it might bring an improper or undesirable result.

Step 1

Unpack the box and check the contents. You should have the following items.

- TX module × 1
- RX module × 1
- AC/DC Adaptor × 1

Step 2

Plug the transmitter to the DVI source such as PC.

Note: You don't need to adopt the AC/DC adapter , PC source provides enough power to supply the transmitter module. Any additional intermediate cable using between transmitter and DVI source might bring undesirable performance degradation.

Step 3

Plug the 5V power adapter to the power jack of the receiver. Ensure that the green LED beside the power jack is turned on same as Step 2.

Step 4

Plug one end of the 4LC optical cable into the transmitter and plug in the other end into the receiver (See Figure 2).



Figure 2 Installation of Optical DVI extender

Note: The maximum transmitting distance in multimode fiber is 500m.

Step 5

Plug the receiver to the display.

Step 6

Then power on the display and you will see the video pictures. If you can't get the proper resolution on the display, please refer to **Self-EDID Programming Procedure** on page 7 and repeat the installation procedure again.

Note: You can replace any DVI cable by following the **Step1** to **6** while all powers of PC and display are ON.



DVI Extender via 4 fiber channel LC Duplex Connector Self-EDID Programming Extends DVI connection up to 500 meters

Self-EDID Programming Procedure

EDID contains resolution and timing information which a display can support. The graphic source equipment generally required to read the EDID from the sink equipment (display). In AD-SL-500-4LC series, there is a Default EDID Setting before shipment. Please refer to the “**Default EDID resolution setting**” table on the page 2. This setting stores in the transmitter unit to initiate as a display. Sometimes this default EDID might not contain the resolutions which the display can support and result in an abnormal picture. To solve this problem, AD-SL-500-4LC series support a **Self-EDID programming function** which can copy the EDID information from the display. Please follow the steps below to copy the EDID of the display into the transmitter unit.

Step 1

Power on the display.

Step 2

Plug 5V DC power adapter into the transmitter.

Step 3

Connect the transmitter to the display. (Not PC)

Step 4

Push the **self-EDID** button with a narrow pin. The green LED will be blinking to indicate the proceeding of copying EDID information. When this LED stopped blinking, the EDID copying procedure is done.

Step 5

Disconnect the transmitter from the display. Follow the **installation procedure** from **step 2 to 7** again and you will get the desired resolution and timing setting.

Recovery of default EDID setting

Step 1

Plug 5V DC power adapter into the transmitter and disable all DVI connections (PC and monitor).

Step 2

Push the **self-EDID** button with a narrow pin. The green LED will be blinking to indicate the recovery of EDID information. When this LED stopped blinking, the recovery procedure is done. And, now, the EDID in transmitter has been recovered to the default EDID setting.