

DVP-5311D

Video (DVI-DVI), Control and Data Transmission Extender



Features

- Supports High Resolution 1920x1200 @ 60Hz WUXGA
- Zero pixel loss with TMDS signal correction
- DVI loop-through for supporting local display and monitoring
- Extremely low latency (<3 ms) for video, control and data transmission
- Full re-locking for the receiver regenerates digital signal producing top signal quality
- Supports 4 USB 2.0 devices in the remote location (keyboard, mouse, touch panel, storage...)
- Support RS-232 serial communication transmission interface
- Power Over Ethernet Cable. Only one power supply supports both transmitter and receiver
- Strong and mountable design for Industry application scenario
- Extends up to 100 meter (330 ft)

Introduction

The DVP-5311D video and control extender Let you control a PC from up to 100m *33ft) away from a single Cat 5e or Cat 6 cable connection, with uncompressed 1920 x 1200 DVI-D video, with 24-bit color depth, and access to up to four connected USB devices (keyboard, mouse, touch panel, storage or other peripherals) and RS-232 control interface, with less than 3 milliseconds latency.

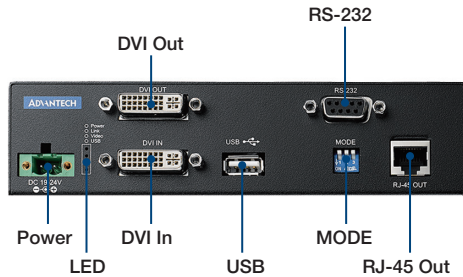
DVP-5311D enable users to install critical industry PC in a secure and controlled environment away from work station or control room. And with Power-Over-Cable feature, users just need to supply the power to one device to have the whole set working for solving the hassle of running power cables. DVP-5311D is the most suitable solution for remote display and control in industrial applications.

Specifications

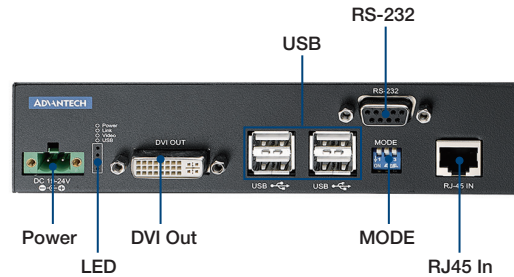
		Extender Transmitter (Tx)	Extender Receiver (Rx)	
Electronic	Video Interface	DVI-D (29 pins female) DVI-D (29 pins female) - Loop Through	DVI-D (29 pins female)	
	Video Transmission Cable	CAT 5/6	CAT 5/6	
	Video Bandwidth	340 MHz (10.2Gbps)	340 MHz (10.2Gbps)	
	Video Resolution	480p / 720p / 1080p@60 / 1920x1200@60	480p / 720p / 1080p@60 / 1920x1200@60	
	Transmission Distance	100 meters (328 ft)	100 meters (328 ft)	
	USB Port(s)	1 USB port for connecting to IPC, comply with USB 2.0	4 x USB 2.0 ports, for keyboard, mouse, touch panel and data transmission (client)	
	RS232	Supported	Supported	
	Dimension (W x H x D)	80 x 50 x 160 mm (3.1" x 1.9" x 6.2")	80 x 50 x 160 mm (3.1" x 1.9" x 6.2")	
	Input Power	19 - 24 V _{DC} ± 20%	19 - 24 V _{DC} ± 20%	
	ESD Protection	8KV (contact) / 15KV (air)	8KV (contact) / 15KV (air)	
	Power Connector	Phoenix-type (2 pins) The power can also be transferred to Rx side via CAT5/6 cable (power over cable)	Phoenix-type (2 pins) The power can also be transferred to Tx side via CAT5/6 cable (power over cable)	
	HDCP Compliance	Yes (1.4)	Yes (1.4)	
	Indicator Light	Power, Link, USB, Video	Power, Link, USB, Video	
	Grounding	grounding screw for the better noise immunity	grounding screw for the better noise immunity	
	DIP Switch	RS-232 Configuration & Firmware Update	RS-232 Configuration & Firmware Update	
	Mechanical	Housing	Metal	Metal
		Mounted design	Support DIN-Rail, Pole and VESA mount installation	Support DIN-Rail, Pole and VESA mount installation
Environmental	Operation Temperature	0 ~ 60 °C	0 ~ 60 °C	
	Storage Temperature	-20 ~ 70 °C	-20 ~ 70 °C	
	Humidity	95% RH@ 40 °C	95% RH@ 40 °C	

Connector

Extender Transmitter (Tx)



Extender Receiver (Rx)



Switch Mode

DIP Switch Pin 1	RS-232 Mode
On (down)	DTE mode
Off (up)	DCE mode

	Pin 2 On (down)	Pin 2 Off (up)
Pin 3 On (down)	FW update for MCU 1	FW update disabled
Pin 3 Off (up)	FW update for MCU 2	FW update disabled

Ordering Information

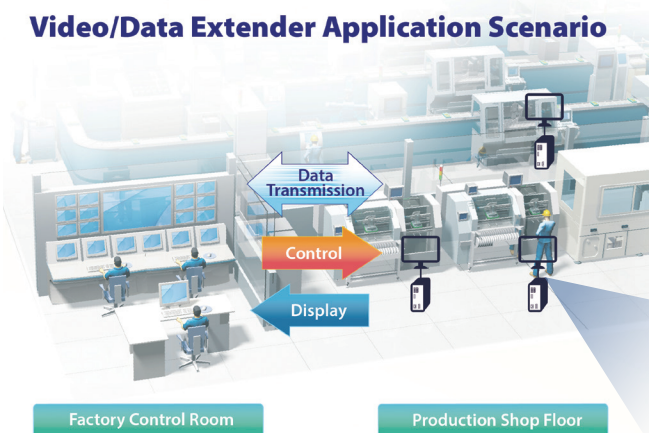
Part Number	Description
DVP-5311D	DVI Extender : Extender Transmitter (TX) & Extender Receiver (RX)

Packing List

Part Number	Description	Quantity
DVP-5311D	DVI Extender : Extender Transmitter (TX) & Extender Receiver (RX)	TX x 1 / RX x 1
Power Adaptor	ADP A/D 100-240V 65W 19V C6	1
DIN-Rail Bracket	1950016395T101	1

Extender Scenario

Video/Data Extender Application Scenario



Video / Data Extender – Scenario Diagram

Advantech focuses on industrial application and provides industry grade product. Mountable design for industrial application scenario. Easy to use for multiple equipment alignments.

