

Specifications

DXP DVI Pro Series

NOTE: *Appropriate DVI-D to HDMI cables or adapters are required for HDMI signal input/output.

Video

Routing

DXP 44 DVI PRO	4 x 4 matrix
DXP 48 DVI PRO	4 x 8 matrix
DXP 84 DVI PRO	8 x 4 matrix
DXP 88 DVI PRO	8 x 8 matrix

Signal type..... Single-link DVI digital video signals are supported

Digital video.....	RGB digital video (DVI and HDMI standards) or Y, Cr, Cb digital component video (HDMI), actively buffered (supports all single-link DVI and HDMI (if using an optional adapter) standards from 640x480 @ 60 Hz to 1600x1200 @ 60 Hz computer video and HDTV 480p, 720p, 1080i, and 1080p)
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NOTE: The DXP DVI Pro Series switchers support TMDS data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D**, HD lossless audio, and other HDMI 1.3 specification features.

**Extron strongly recommends compatibility testing while designing and before installing any 3D system. There are several unique 3D formats in use by source devices and display manufacturers. The level of 3D product support is governed by pixel clock, signal format, and communication between source and sink devices. Please contact an Extron Application Engineer for more information.

Digital audio.....	Supports HDMI audio (if using an HDMI to DVI adapter) transmitted through the RGB and Y, Cr, Cb lines, actively buffered.
Consumer Electronics Control (CEC)	Not supported
EDID and DDC	Supports Extended Display Identification Data (EDID) and Display Data Channel (DDC) data using DVI and HDMI standards. EDID and DDC signals are actively buffered.
HDCP.....	Compliant with High-bandwidth Digital Content Protection (HDCP) using DVI and HDMI standards
HPD	Supports hot plug detection (HPD) of display as a pass-through signal.
Gain.....	Unity
Resolution range.....	Up to 1080p (HDTV) or 1920x1200 (the highest resolution of the single-link DVI standard) @ 60 Hz
Maximum data rate.....	6.75 Gbps (2.25 Gbps per color)
Maximum pixel clock.....	165 MHz
Standards	DVI 1.0, HDMI 1.3
Switching speed	200 ns, max.

Video input

Number/signal type.....	4 or 8 (depending on model) digital RGB (TMDS) single-link DVI-D (or HDMI*)
Connectors	4 or 8 female DVI-I (digital only)
Nominal level	
Digital video.....	1.2 Vp-p
DDC (Display Data Channel)	5.0 Vp-p (TTL)
Minimum/maximum level.....	0.5 V to 1.0 Vp-p with no offset

Impedance.....	100 ohms
Return loss	<-15 dB @ 1 MHz to 1.5 GHz
TDR rise time (10%-90%).....	75 ps
Equalization	Automatic
Input cable length	>100' (30 m) at 1920x1200 @ 48, 50, or 60 Hz; or 1080p; 8 bit color

NOTE: The transmission distance varies depending on the signal resolution and on the type of cable, graphic card, and display used in the system.

Video output

Number/signal type.....	4 or 8 (depending on model) digital RGB
Connectors	4 or 8 female DVI-I
Nominal level.....	1.2 Vp-p
Minimum/maximum level(s)	0.5 V to 1.0 Vp-p with no offset (follows input)
Impedance.....	100 ohms
Return loss	<-15 dB @ 1 MHz to 1.5 GHz
DC offset	±500 mV maximum with input at 0 offset
Rise and fall time (20-80%)	0.6 ns
Re-clocking.....	Automatic
Peripheral device power.....	250 mA per output

Communication

Serial control port.....	(1) RS-232, 9-pin female D connector (1) RS-232, front panel 2.5 mm mini stereo jack
Baud rate and protocol	9600 to 115200 baud, 9600 baud (default), 8 data bits, 1 stop bit, no parity
Serial control pin configurations	
9-pin D connector	2 = Tx, 3 = Rx, 5 = GND
Mini stereo jack	Tip = Tx, ring = Rx, sleeve = GND
Ethernet control port.....	(1) RJ-45 female connector
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, ICMP (ping), IP, TCP, DHCP, HTTP, Telnet
Default settings	Link speed and duplex level = autodetected IP address = 192.168.254.254 Subnet mask = 255.255.0.0 Gateway = 0.0.0.0 DHCP = off
Program control	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™) Microsoft® Internet Explorer® ver. 6 or higher, Telnet

General

Power supply.....	Internal Input: 100-240 VAC, 50-60 Hz
Power consumption.....	48 watts, fully loaded 8 x 8 unit
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Fan, air flows right to left (as viewed from front)
Thermal dissipation, full load	163.8 BTU/hr
Mounting	
Rack mount.....	Yes, 2U high
Enclosure type	Metal
Enclosure dimensions	3.5" H x 17.5" W x 12.0" D (2U high, full rack wide) (8.9 cm H x 44.4 cm W x 30.5 cm D) (Depth excludes connectors. Width excludes integrated rack ears.)
Product weight	10.0 lbs (4.5 kg)
Shipping weight	15 lbs (7 kg)

Vibration ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance
 Safety CE, c-UL, UL
 Compliances CE, C-tick, FCC Class A, ICES, KCC, VCCI
Warranty 3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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