Dual Power over DXLink Controller

PDXL-2 (FG1090-170)

Overview

The PDXL-2 is a Power over DXLink injector which allows for remote powering of any two DXLink devices by "injecting" power through the twisted pair cable. The PDXL-2 also accepts I/O control from a NetLinx controller allowing power down capabilities to either (or both) of the connected DXLink devices to achieve power savings when they are not in use.

The PDXL-2 Dual Power over DXLINK Controller provides the ability to power a point-to-point DXLink Transmitter to DXLink Receiver without the need for an AC outlet in proximity to the location of the DXLink devices. When used with a NetLinx controller, the PDXL-2 can power down the DXLink devices as part of a standby mode for an entire room to reduce energy usage.

Specifications

ACTIVE POWER REQUIREMENTS	
Power Connector	(1) IEC Power Cord Connector 100-240 V, 50/60 Hz, 1.6 A
Power Consumption	Maximum Current Draw: 1.0 A Typical Current Draw: 0.35 A Note: Power consumption varies based on the number and type of powered devices

ENVIRONMENTAL	
Temperature (Operating)	32° to 104° F (0° to 40° C)
Temperature (Storage)	-4° to 158° F (-20° to 70° C)
Humidity (Operating)	90%, Non-condensing (maximum)
Humidity (Storage)	95%, Non-condensing (maximum)
Operating Altitude	–1000 to 10,000 ft. (–304.8 to 3048 m)

DXLink	
DXLink Ports	(2) sets of 2 RJ-45 connectors
Transport Layer Throughput	10.2 Gbps pass thru
Power over DXLink Output (per output)	•Pin Assignment & Polarity 4/5 (+), 7/8 (–) •Output Power Voltage 55 VDC •Output Power 30 Watts (guaranteed) •Output Current 0.6 A (maximum)

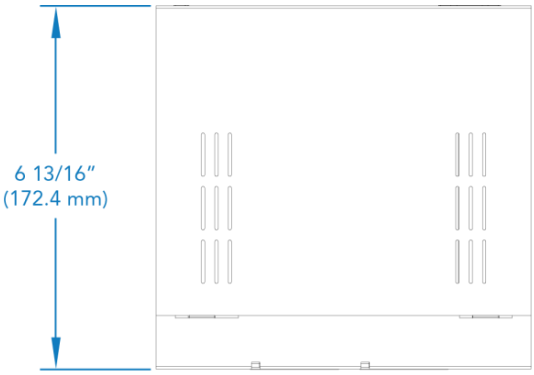
CONTROL	
Relay Connection Type	(2) 8-pin 3.5 mm (female) captive-wire connectors
Relay Description	NetLinx Ports 1 & 2 Channels 1-2 Each relay can switch up to 24 VDC or 28 VAC @ 1 A Each relay is independently controlled
Relay(s)	2 Note: Connecting the PDXL-2 to the I/O port on the NetLinx Central Controller enables you to power off devices

INDICATORS	
AC Power Indicator	(2) LED (1 for each DXLink Powered Output) • Yellow (On): power is on and active • Green (On): A remote terminal is connected

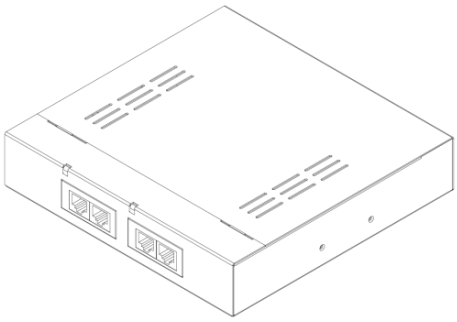
GENERAL	
Dimensions (HWD)	1 7/16” (36.3 mm) x 7” (177.8 mm) x 6 13/16” (172.4 mm)
Weight	2.25 lbs (1.02 kg)
Front Components	2 sets of 2 DXLink RJ-45 connectors (2) AC Power Indicators
Back Components	4 3.5 mm (female) captive-wire connectors. 1 each for: • Ground • Relay port 1 (to be fed from I/O connection) • Relay port 2 (to be fed from an I/O connection) • +12V power feed 1 Power connector
Mounting Options	Rack: MPA-VRK Rack Mounting Tray (FG5968-30) Surface: AVB-VSTYLE-SURFACE-MNT Surface Mount Brackets (FG1010-722) Pole: AVB-VSTYLE-POLE-MNT Single Module Pole Mounting Kit (FG1010-723)
Compatible AMX Products	DXLink HDMI Transmitter Module DXLink Multi-Format Transmitter Module DXLink Multi-Format Decor Style Wallplate Transmitters (US) DXLink Multi-Format Wallplate Transmitters DXLink HDMI Receiver Module
Twisted Pair Cable Type*	Cat5e, Cat6/6e, Cat6A, Cat7 of UTP, SF/UTP, S/FTP, and F/UTP varieties
Twisted Pair Cable Length*	Up to 328 ft (100 m)
Certifications	FCC Part 15 Class A CE EN 55022 Class A C-Tick CISPR 22 Class A

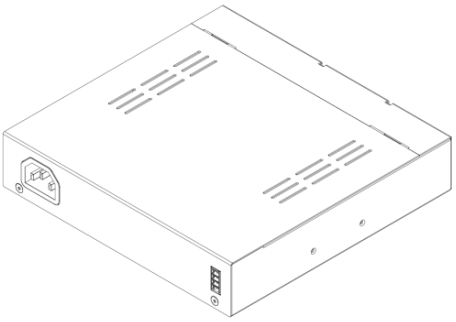
	UL 60950-1 CE EN 55024 CE EN 60950-1 IEC 60950-1

*Cable runs with a minimum specification of ANSI/TIE/EIA 568A-5 and ratings of 250MHz or better may be used with DXLink equipment. However, cable run topology and environmental influences can affect the overall successful distance capabilities of these runs. For successful deployments up to 100 meters without consideration to outside variables, AMX recommends the use of shielded category cable (STP) or Cat6A (or better) versions of unshielded or shielded twisted pair (UTP/STP) for DXLink runs. For more details and helpful cabling information, please contact your AMX representative for a copy of the white paper titled "Cabling for Success with DXLink".

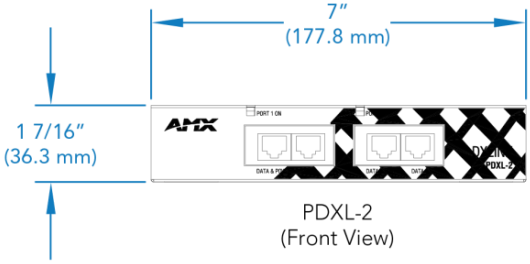


PDXL-2
(Top View)



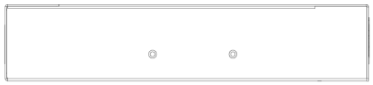


PDXL-2
(Isometric Views)



PDXL-2
(Front View)

PDXL-4
(Back View)



PDXL-4
(Right View)

About AMX

AMX hardware and software solutions simplify the implementation, maintenance, and use of technology to create effective environments. With the increasing number of technologies and operating platforms at work and home, AMX solves the complexity of managing this technology with reliable, consistent and scalable systems. Our award-winning products span control and automation, system-wide switching and audio/video signal distribution, digital signage and technology management. They are implemented worldwide in conference rooms, homes, classrooms, network operation / command centers, hotels, entertainment venues, broadcast facilities, and more.

Specifications subject to change. Revised 7-March-2013.

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