

DM-NUX-L2 and DM-NUX-R2

DM NUX USB over Network with Routing



- Provide reliable, high-speed USB signal extension for most USB 1.1 or 2.0 devices¹
- Compatible with DM NUX Wall Plates (DM-NUX-L2-1G and DM-NUX-R2-1G)
- Compatible with DM NVX® endpoints that support USB 2.0 signal extension
- Support Virtual Hub capabilities with up to five DM-NUX-R2 endpoints
- Enable USB signal routing under the control of a Crestron® control system or DigitalMedia™ system²
- Plug-and-play compatible with most types of USB 1.1 and 2.0 devices and hosts¹
- No drivers required with Windows®, macOS®, or Linux® operating systems¹
- Transport USB over Ethernet or CAT5e (or better) at speeds up to 480 Mbps
- Mass Storage Acceleration maximizes USB 2.0 bulk transfer speeds
- DM-NUX-R2 provides 4 USB Type A ports, expandable using up to 4 USB hubs (not included)
- Expand upon the USB-HID routing capabilities of a DigitalMedia™ system without additional wiring
- Add USB host or device ports to any DM® transmitter, receiver, or switcher
- USB local (host) or remote (device) endpoint sold individually for maximum flexibility

The DM NUX USB over Network with Routing ([DM-NUX-L2](#) and [DM-NUX-R2](#)) deliver reliable, high-speed USB signal extension and routing for USB 1.0, 1.1, and 2.0 devices throughout a home, business, or campus for distances up to 330 ft (100 m).² Two types of USB endpoints are available:

- DM-NUX-L2 - Provides connectivity for a single USB host (computer, media server, codec, etc.)
- DM-NUX-R2 - Provides connectivity for up to four USB devices (keyboards, whiteboards, mobile devices, etc.) at one location

USB Signal Routing

When integrated with a DigitalMedia™ system, the USB endpoints provide seamless routing of USB signals alongside video and audio. The USB endpoints can connect directly to a DM® transmitter, DM receiver, or Ethernet network via CAT5e (or better) cable.² From any room with a video display, you can switch between several computers, media servers, and game consoles anywhere in the building and control each one using a mouse and keyboard, game controller, or electronic whiteboard.¹

Virtual Hub

Using Virtual Hub technology, five DM-NUX-R2 endpoints may simultaneously be connected to a single DM-NUX-L2 endpoint. Creating this virtual hub allows numerous USB devices to control a single host device (such as a PC).¹ The USB signals are transported over the local network and managed through a Crestron control system.

USB HID Connectivity

The USB endpoints expand on DigitalMedia's built-in USB HID routing abilities, adding enhanced USB connectivity to DM transmitters, receivers, or switchers without requiring any additional wiring. Simply connect a USB endpoint to the LAN port of a DM transmitter or receiver, or to a port on the local area network.²

Point-to-Point Connectivity

The USB endpoints may be used to provide simple, point-to-point USB signal extension, either over an Ethernet LAN or a dedicated CAT5e (or better) cable.² At least one remote (device) endpoint (DM-NUX-R2) and one local (host) endpoint (DM-NUX-L2) are required to form a working system. The endpoints are sold individually to accommodate any system configuration.

NOTE: For alternative point-to-point USB signal extension, refer to the USB over Category Cable Extender Wall Plates ([USB-EXT-2-REMOTE-1G](#) and [USB-EXT-2-LOCAL-1G](#)) or the USB over Category Cable Extenders ([USB-EXT-3-KIT](#)).

Endpoint Compatibility

The DM-NUX-L2 and DM-NUX-R2 are compatible with the [DM-NUX-L2-1G](#) and [DM-NUX-R2-1G](#) wallplates and DM NVX® endpoints that support USB 2.0 signal extension.

DM-NUX-L2 and DM-NUX-R2

DM NUX USB over Network with Routing

Specifications

Communications

Ethernet	100Base-T or 1000Base-T, Layer 2
Link Speed	Up to 480 Mbps, dependent upon network speed and quality
USB Device Support	USB 1.0/1.1 and 2.0 with Hub compatible including isochronous devices ¹
USB Hub Support	Any signal chain may include up to 4 USB hubs plus one DM-NUX-L2 and one DM-NUX-R2 ¹
Maximum USB Devices	30 USB devices, or 4 USB hubs with 26 USB devices
Host Computer OS Support	Windows®, macOS®, and Linux® operating systems
USB Throughput	USB 2.0 up to 480 Mbps; USB 1.1 up to 12 Mbps

Connectors – Local endpoint

Link	(1) 8-pin RJ-45 connector, female; Connects to an Ethernet network or directly to a Remote endpoint ³
USB	(1) USB Type B connector, female (USB B to A cable included) USB 2.0 device port for connection to the USB host computer, media server, game console, annotator, codec, etc.
Config	For factory use only

Connectors – Remote endpoint

24V 1A	(1) 2.1 x 5.5 mm DC power connector; 24VDC power input; PW-2407WU power pack included
Link	(1) 8-pin RJ-45 connector, female; Connects to an Ethernet network or to the Link port on the Local endpoint ³
USB	(4) USB Type A connectors, female; USB 2.0 host ports for connection of USB devices such as mice, keyboards, and other USB devices ¹ ; Available USB Power: Up to 600 mA at each port concurrently; Up to 1A when two or fewer ports are in use
Config	For factory use only

Indicators – Local endpoint

Activity	(1) Amber LED, indicates data activity over the Link connection
Host	(1) Green LED, indicates a valid connection to the USB host
Link	(1) Green LED, indicates a valid Link connection to the Remote endpoint
Pair	(1) Pushbutton, used to establish a connection with a Remote endpoint
Power	(1) Blue LED, indicates operating power is supplied via the USB host

Indicators – Remote endpoint

Activity	(1) Amber LED, indicates data activity over the Link connection
Host	(1) Green LED, indicates a valid connection to the USB host at the Local endpoint
Link	(1) Green LED, indicates a valid Link connection to the Local endpoint
Pair	(1) Pushbutton, used to establish a connection with a Local endpoint
Power	(1) Blue LED, indicates operating power is supplied via the power supply

Power

DM-NUX-L2	USB powered via the USB host interface
DM-NUX-R2	Input: 100-240VAC, 50/60 Hz; Output: 0.75A @ 24VDC; PW-2407WU power pack included

Environmental

Temperature	32° to 122°F (0° to 50°C)
Humidity	20% to 80% RH (non-condensing)

Enclosure

Construction	Black anodized aluminum
Mounting	Freestanding or surface mount (mounting bracket included)

Dimensions

Height	1.02 in. (26 mm)
Width	3.94 in. (100 mm)
Depth	2.99 in. (76 mm)

Compliance

Regulatory Model: M201947001
CE, IC, FCC Part 15 Class B digital device

DM-NUX-L2 and DM-NUX-R2

DM NUX USB over Network with Routing

Models

DM-NUX-L2

DM NUX USB over Network with Routing, Local

DM-NUX-R2

DM NUX USB over Network with Routing, Remote

Available Accessories

For a list of available accessories, visit either the [DM-NUX-L2](#) or [DM-NUX-R2](#) product page.

Notes:

1. The USB endpoint is engineered to deliver maximum compatibility with the widest possible range of devices. Crestron does not guarantee that all USB devices or hosts are compatible with the USB endpoint. Certain USB devices may require additional driver installation if not directly supported by the computer's operating system. A web camera may not be used when five or more DM-NUX-R2 endpoints are paired. Video from two cameras connected to a DM-NUX-R2 may not be viewed on different applications simultaneously. Any 1.0/1.1 devices need a USB hub.
2. All USB endpoints must be on the same layer 2 domain as the control system or DigitalMedia system. Follow accepted guidelines for proper installation and configuration of the local area network to ensure optimum performance.
3. For a direct link connection (not on a network) between the Local and Remote endpoints, use high quality, solid core CAT5e (or better) unshielded twisted pair (UTP) cable. To comply with the European Directive (CE), Crestron recommends using high-quality, solid core CAT5e (or better) shielded twisted pair (STP) cable. If connecting either endpoint through a wall jack, a stranded patch cord may be used. The maximum aggregate cable length is 330 ft (100 m) between units. The minimum cable length is 6 ft (1.8 m).

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

Crestron, the Crestron logo, DigitalMedia, DM, and DM NVX are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. macOS is either a trademark or registered trademark of Apple, Inc. in the United States and/or other countries. Extreme USB is either a trademark or registered trademark of Icron Technologies Corporation in the United States and/or other countries. Linux is either a trademark or a registered trademark of Linus Torvalds in the United States and/or other countries. Windows is either a trademark or registered trademark of Microsoft Corporation in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography.

Specifications are subject to change without notice.

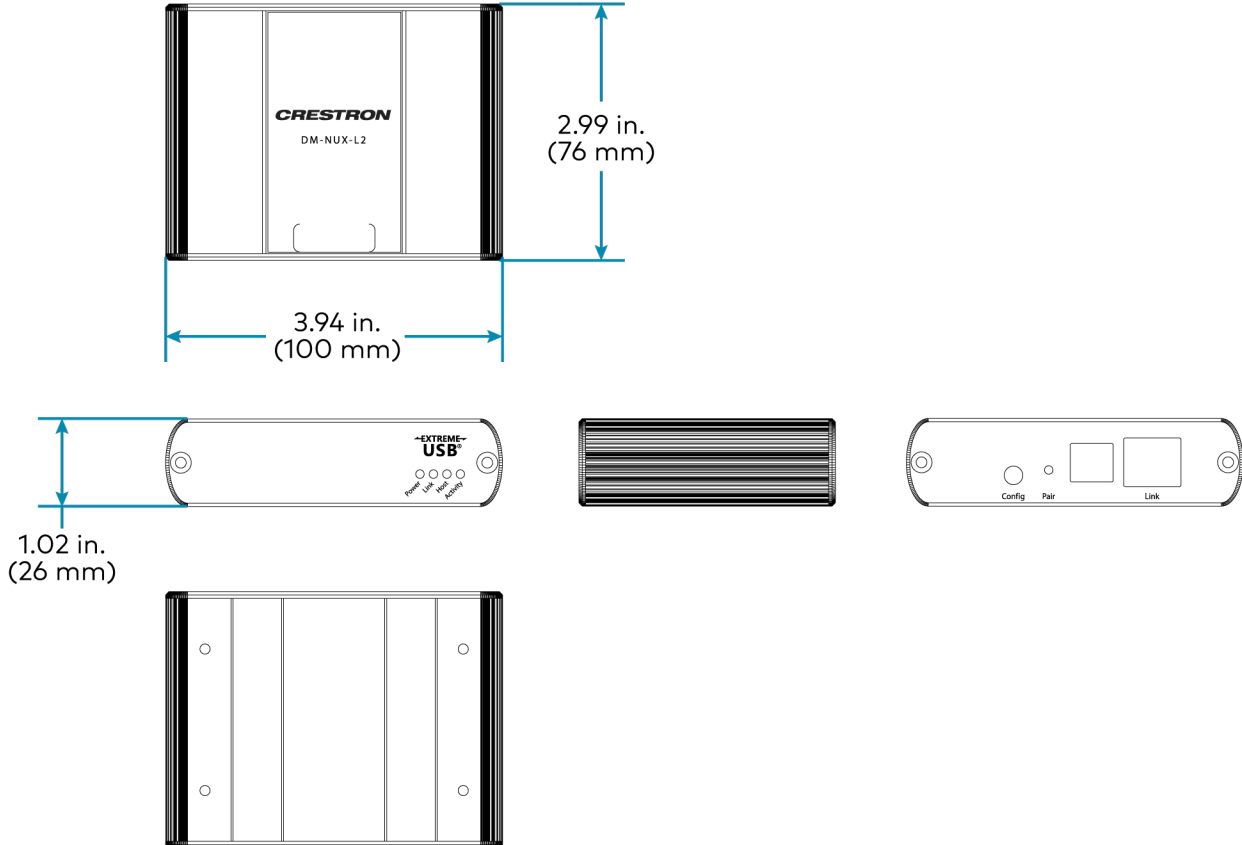
©2022 Crestron Electronics, Inc.

Rev 01/14/22

DM-NUX-L2 and DM-NUX-R2

DM NUX USB over Network with Routing

DM-NUX-L2



DM-NUX-L2 and DM-NUX-R2

DM NUX USB over Network with Routing

DM-NUX-R2

