

DM-NVX-DIR2

DM NVX Director® Network AV Switching Appliance



- *Network AV system configuration, management, and signal routing*
- *Compatible with DM NVX® encoders and decoders*
- *Support for up to 100 endpoints and 20 domains*
- *Interdomain routing*
- *Intuitive web-based graphical user interface*
- *Full programmable control of virtual matrices and physical endpoints*
- *Automatic endpoint device discovery*
- *Multicast address control*
- *Credential management of DM NVX endpoints*
- *Custom naming and search tools*
- *XML device map file import and export*
- *Built-in logging*
- *Multiple control system support*
- *Includes external power adapter*

The Crestron [DM-NVX-DIR2](#) is an enterprise-grade network appliance that facilitates configuration, control, and management of a large-scale AV network using [DM NVX®](#) encoder and decoder endpoints. The DM-NVX-DIR2 virtually emulates the functionality of a traditional hardware-based DM® matrix switcher, routing high-quality 4K streaming AV signals throughout a room, building, or campus.

The DM-NVX-DIR2 supports a maximum of 100 DM NVX endpoints. A single Ethernet port is built-in, and up to three [ADPT-USB3.0-GBENET](#) (sold separately) can be connected via USB for additional Ethernet ports. DM NVX Director® network appliances can be deployed to handle corporate enterprise, university, government, military, medical, transportation, sports, entertainment, hospitality, gaming, and retail applications.

Simple and Flexible Configuration

The DM-NVX-DIR2 automatically discovers up to 100 DM NVX endpoints on the network and enables each endpoint to be assigned as a logical input or output within a domain. Up to 20 domains are supported. For larger systems, multiple DM-NVX-DIR2 network appliances can be used. Alternatively, the [DM-NVX-DIR-ENT](#), which supports 240 domains and includes additional enterprise features, can also be used.

Easy Web-Based Setup and Control

The DM-NVX-DIR2 provides an intuitive web-based user interface to facilitate system configuration, signal routing, and diagnostics of a complete AV network. Each domain and endpoint, as well as the inputs and outputs of each endpoint, can be designated with a user-friendly name. Navigating the entire system is easy using the search box to quickly find domains, endpoints, inputs, and outputs by name or address. The system overview screen visually displays the video and audio signal status for all inputs and outputs, offering an intuitive and easy-to-navigate graphical layout.

Interdomain Routing

Video inputs can be routed to video outputs within a single domain. Additionally, interdomain routing allows video inputs from one domain to be transmitted to video outputs across other domains. Routing control of AV signals is accomplished by using the web interface or control system programming.

Multicast Address Control

A custom multicast range can be assigned for DM NVX encoder and decoder endpoints. This range is defined by three factors: the starting multicast address, the number of multicast addresses allocated per DM NVX endpoint, and the total number of DM NVX endpoints within the domain. Multicast address control is accomplished by using the web interface.

Credential Management of DM NVX Endpoints

Username and password credentials can be changed simultaneously for all DM NVX encoder and decoder endpoints. Alternatively, the username and password can be changed for only particular DM NVX endpoints. Username and password credential management is accomplished by using the web interface.

Multiple Control System Support

The DM-NVX-DIR2 is compatible with Crestron 3-Series® and later control systems. It allows for the assignment of a single control system, known as the Global Domain control system, to all domains at once. Additionally, multiple control systems can be assigned, enabling either the Global Domain control system or a separate Domain control system to be allocated to each domain individually. Control system assignment can be managed through the web interface or control system programming.

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Specifications

Computer

Model	Dell® OptiPlex® 7080 Micro Desktop computer
Processor	Intel Core® i5-10500T CPU @ 2.30 GHz
RAM	8 GB DDR4 2666 MT/s
Storage	256 GB SSD
Graphics	Intel® UHD Graphics 630
Network	Intel I219-LM 100/1000 Mbps Ethernet
Operating System	AlmaLinux OS® 9.5 software

Device Support

Endpoints	Supports 100 DM NVX® AV-over-IP devices, each configured as an encoder or decoder
Domains	Supports 20 domains (allows grouping of endpoints in up to 20 individual subsystems)

Communications

Ethernet	100/1000 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, IPv4, HTTPS web browser setup and control, Crestron 3-Series® (or later) control system integration
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Buttons and Indicators

Power	(1) Push button with LED backlight; For power on/off and reset
LAN	(2) LEDs on LAN port; Indicate Ethernet link status and activity

Connectors

Audio (Front)	(1) 3.5 mm bidirectional line level audio connector (not used)
Line Out (Front)	(1) 3.5 mm stereo line level output audio connector (not used)
USB-C (Front)	(1) USB Type-C® 3.2 (Gen 2) connector, female (not used)
SSUSB (Front)	(1) USB Type-A 3.2 (Gen 2) connector, with PowerShare, female; Connects to a keyboard for optional command line configuration
Antenna	(2) Wireless antenna slots (not used)
HDMI	(1) HDMI® connector, female; Connects to a monitor for optional command line configuration

LAN	(1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port
SSUSB 3.2 Gen 1	(2) USB Type-A 3.2 (Gen 1) connectors, female; Provides one port with Smart Power; Connects to a keyboard or mouse for optional command line configuration; ADPT-USB3.0-GBENET (sold separately) can be connected for additional Ethernet ports
SSUSB 3.2 Gen 2	(2) USB Type-A 3.2 (Gen 2) connectors, female; Connects to a keyboard or mouse for optional command line configuration; ADPT-USB3.0-GBENET (sold separately) can be connected for additional Ethernet ports
Kensington Lock	(1) Slot for optional Kensington® lock (not included)
DisplayPort	(2) DisplayPort™ 1.4 connectors, female; Connects to a monitor for optional command line configuration
19.5VDC	(1) DC power connector; 19.5VDC power input; For included power adapter

Power

Power Adapter (included)	Input: 100-240VAC, 50/60 Hz; Output: 130 W @ 19.5VDC
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Environmental

Operating Temperature	50 to 95°F (10 to 35°C)
Storage Temperature	-40 to 149°F (-40 to 65°C)
Heat Dissipation	42.9 BTU/hr (short idle)

Construction

Enclosure	Metal, plastic
Mounting	Freestanding, optional VESA® mount and Kensington® lock capabilities

Dimensions

Height	1.40 in. (36 mm)
Width	7.20 in. (183 mm)
Depth	7.00 in. (178 mm)

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Weight

2.87 lb (1.30 kg)

Model

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Available Accessories

For a list of available accessories, visit the [DM-NVX-DIR2](#) product page.

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 contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

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

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

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