The Crestron® <u>DM-NVX-363C</u> and <u>DM-NVX-360C</u> network AV encoder/decoder cards transport ultra high-definition 4K60 4:4:4 video over standard Gigabit Ethernet. HDR10, HDR10+, and Dolby Vision® video formats are supported.



In the Box

1 DM-NVX-363C or DM-NVX-360C Network AV Encoder/Decoder Card

Additional Item

1 Connector, 5-Pin (2003577)



Install the Card

The DM-NVX-363C and DM-NVX-360C are designed to occupy a card slot of a DMF-CI-8 chassis.

CAUTION: To prevent bodily injury when mounting or servicing the unit in a rack, observe the following guidelines:

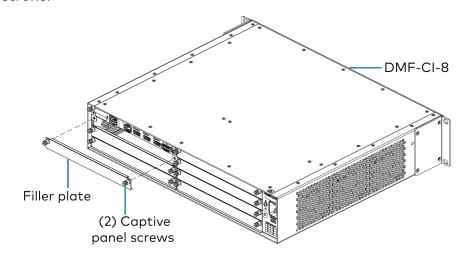
- DM NVX® cards are susceptible to damage from electrostatic discharge (ESD). Observe standard ESD precautions when handling the cards. Wear an ESD wrist strap that is connected to ground, and place the cards on grounded surfaces only.
- To prevent damage to a card that is connected to cables, disconnect all cables from the card before installing the card into a card slot or removing the card.

NOTES:

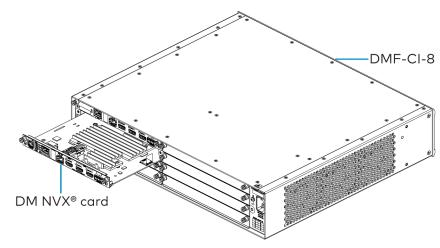
- In a new installation of the DMF-CI-8, it is recommended that the cards be installed before power is applied to the chassis. In an existing installation of the DMF-CI-8, the cards can be added or replaced without the need to shut down the chassis—the cards are hot swappable.
- When installing the cards into a partially populated DMF-CI-8, install the cards into slots 5–8 before using slots 1–4. Doing so ensures better cooling and lower power consumption. In addition, always cover empty slots using the filler plates included with the chassis.

To install a card into a slot:

1. Using a #2 Phillips screwdriver (not included) or your fingers, remove the filler plate of an unused slot by loosening the two captive panel screws.



2. Carefully insert the card into the card guides of the selected slot, and then push the card inward until it engages the chassis backplane.



3. Finger-tighten the two captive panel screws to secure the card—do not overtighten the screws.



Connect the Card

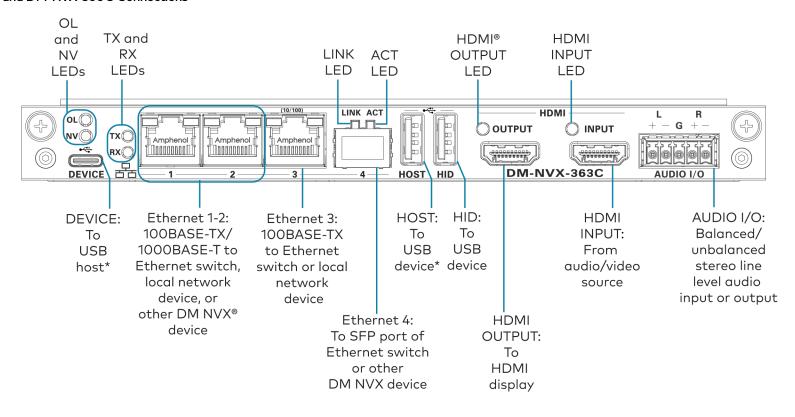
Connect the card as required for the application.

NOTES:

- The DM-NVX-363C and DM-NVX-360C each provide four Ethernet ports:
 - Ports 1 and 2 are 100BASE-TX/1000BASE-T ports.
 - Port 3 is a 100BASE-TX port.
 - Port 4 is an SFP port, which connects to a fiber-optic network using the appropriate Crestron <u>SFP-1G</u> Series transceiver module (sold separately). For information about installing a Crestron SFP-1G transceiver module, refer to the <u>SFP-1G Series Installation Guide</u> (Doc. 7979) on the Crestron website (<u>www.crestron.com</u>).
- Ethernet port 1, 2, or 4 can be used to connect to a 1000BASE-T Ethernet switch in order to stream network video.
- Ethernet ports 1 and 2 can also be used to connect to a local network device or to another DM NVX device.
- Ethernet port 3 can be used to connect to a dedicated audio network or to a local network device.



DM-NVX-363C and DM-NVX-360C Connections



^{*}The card can be configured to use either the DEVICE port or the HOST port. Both ports cannot be used simultaneously.



AUDIO I/O Connector Pin Assignments

The AUDIO I/O connector uses a 5-pin terminal block for balanced or unbalanced analog audio input or output.

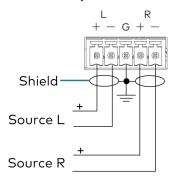
AUDIO I/O Connector

Balanced/Unbalanced Audio Input

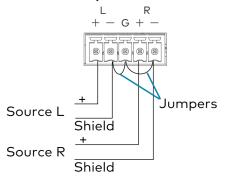
Refer to the following table and diagrams for analog audio input pin assignments and connection information.

Signal Name	Balanced Audio Input	Unbalanced Audio Input
+	L+	L+ In
_	L-	L- Signal return, jumper to GND
G	Shield/ground	Ground
+	R+	R+ In
_	R-	R- Signal return, jumper to GND

Balanced Input



Unbalanced Input

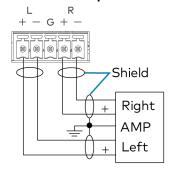


Balanced/Unbalanced Audio Output

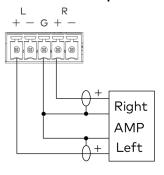
Refer to the following table and diagrams for analog audio output pin assignments and connection information.

Signal Name	Balanced Audio Output	Unbalanced Audio Output
+	L+	L+ Out
-	L-	Open
G	Shield/ground	Common ground
+	R+	R+ Out
- R-		Open

Balanced Output



Unbalanced Output





Upgrade the Firmware

Before using the device, upgrade the firmware. The latest firmware can be downloaded from the <u>DM-NVX-363C</u> or <u>DM-NVX-360C</u> product page on the Crestron website (<u>www.crestron.com</u>).



Configure the Card

Configure the card using the web interface. To access the web interface, open a web browser and then go to the IP address of the card.

NOTE: By default, the IP address of a card is assigned by a DHCP server on the network. If a DHCP server does not exist on the network, the IP address defaults to a link-local address in the 169.254.xxx.xxx range (refer to RFC 3927 for detailed information about link-local addressing).

To find the IP address of the card, use the menu on the front panel display of the DMF-CI-8.

To log in to the web interface, enter the user name and password of the card. The default user name and password are both *admin*.



Connect to the Cloud

The Crestron XiO Cloud® service allows supported Crestron devices across an enterprise to be managed and configured from one central and secure location in the cloud. Supported devices are preconfigured to connect to the service. Use of the service requires a registered XiO Cloud account.

To connect the card to the XiO Cloud service:

- Record the MAC address and the serial number that are labeled on the shipping box or printed circuit board (PCB). The MAC address and the serial number are required in order to add the card to the XiO Cloud environment.
- 2. Do either of the following:
 - If you have an XiO Cloud account, go to https://portal.crestron.io to access the XiO Cloud service.
 - If you do not have an XiO Cloud account, go to www.crestron.com/xiocloud to register for an account.

For detailed information about using the XiO Cloud service, refer to the XiO Cloud Provisioning and Management Service User Guide (Doc. 8214).





Observe the LED Indicators

Refer to the following table for information about the LED indicators on the card.

LED Indicator	Color	Meaning
OL	Green	The device is online with a control system.
NV	Green	(Transmitter mode only) The device is encoding (transmitting) network video.
		(Receiver mode only) The device is decoding (receiving) network video.
TX	Green	The device is in transmitter (encoder) mode.
RX	Green	The device is in receiver (decoder) mode.
Ethernet 1	Green	An Ethernet link is established.
	Flashing amber	Data activity is occurring on the Ethernet link.
Ethernet 2	Green	An Ethernet link is established.
	Flashing amber	Data activity is occurring on the Ethernet link.
Ethernet 3	Green	An Ethernet link is established.
	Flashing green	Data activity is occurring on the Ethernet link.
	Amber	A 100BASE-TX link is established.
Ethernet 4 LINK	Green	An Ethernet link is established.
Ethernet 4 ACT	Flashing green	Data activity is occurring on the Ethernet link.
HDMI OUTPUT	Green	An HDMI signal is being transmitted to the HDMI output.
HDMI INPUT	Green	An HDMI signal is detected at the HDMI input.



Visit the Product Page

Scan the QR code to visit the product page.

DM-NVX-363C



www.crestron.com/model/6511009

DM-NVX-360C



www.crestron.com/model/6511007



Additional Information

Original Instructions

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

Regulatory Model: M201910003

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Doc. 8636A

08/25/20

