DM-NVX-E30C/DM-NVX-D30C
DM NVX™ Network AV Encoder/Decoder Cards

The Crestron® DM-NVX-E30C is a network AV encoder card that transmits ultra high-definition 4K60 4:4:4 HDR video over standard Gigabit Ethernet to a compatible DM NVX™ decoder. The DM-NVX-D30C is a network AV decoder card that receives ultra high-definition 4K60 4:4:4 HDR video from a compatible DM NVX encoder. The DM-NVX-E30C provides a single HDMI® input. The DM-NVX-D30C provides a single HDMI output. The cards feature secure web-based control and management, an analog audio output, and copper LAN connectivity.

›› Check the Box

Item	Qty
DM-NVX-E30C or DM-NVX-D30C	1
Connector, 5-Pin (P/N 2003577)	1

›› Install the Card

The DM-NVX-E30C and DM-NVX-D30C are designed to occupy the DMF-CI-8 chassis.
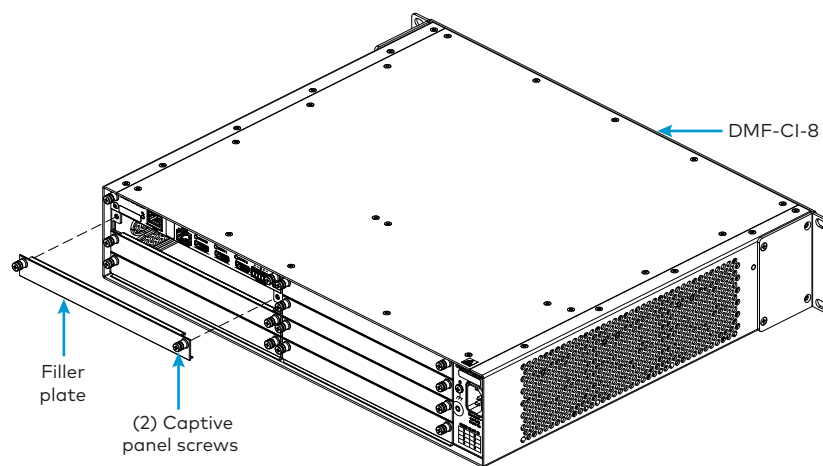
›› Connect the Device

CAUTIONS:
- 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.
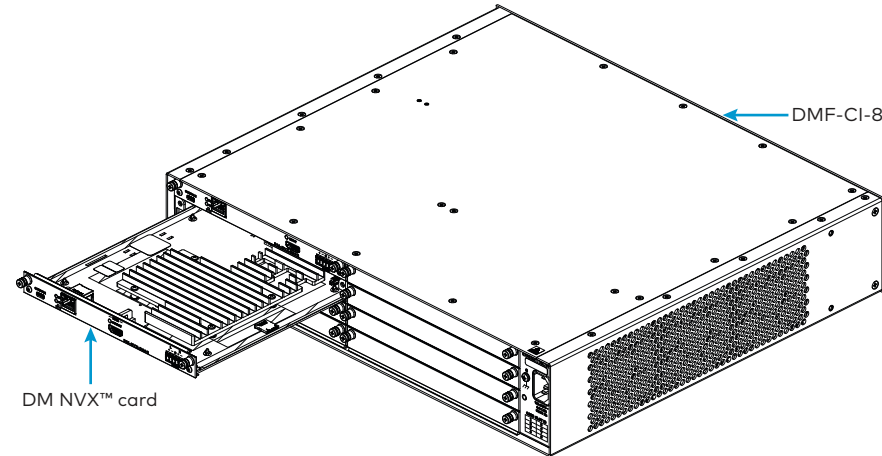
NOTES:
- In a new installation of the DMF-CI-8, it is recommended that the cards be installed before power is applied to the chassis. In an existing installation of the DMF-CI-8, the cards can be added or replaced without the need to shut down the chassis—the cards are hot swappable.
- When installing 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 the DMF-CI-8:

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.
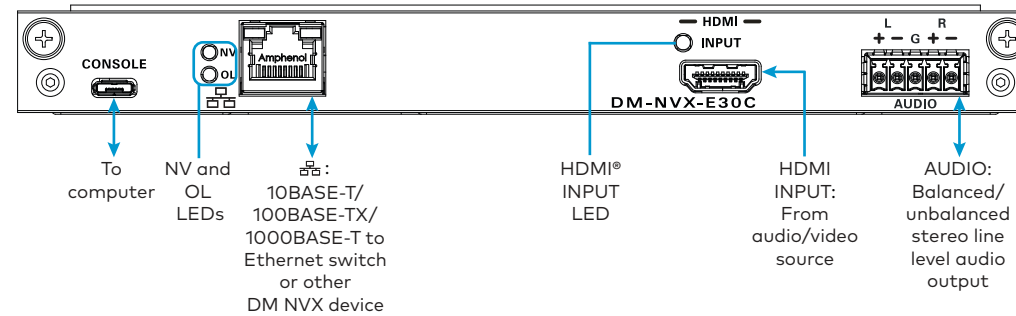

3. Finger-tighten the two captive panel screws to secure the card—do not overtighten the screws.
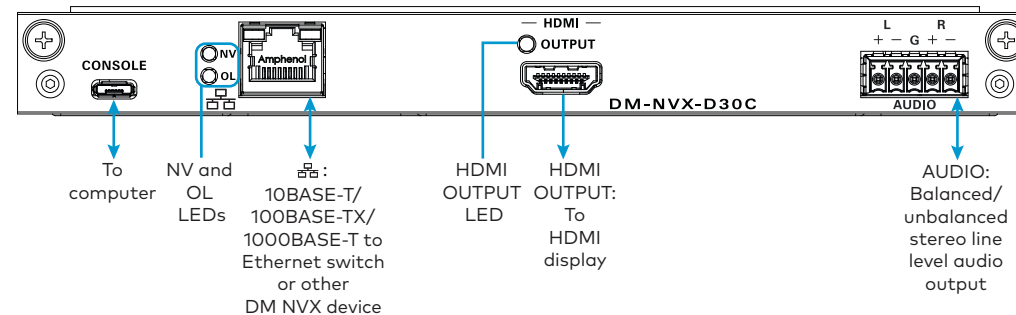
›› Connect the Device

Connect the card as required for the application.

NOTE: The LAN port (⧉) must connect to a 1000BASE-T switch in order to stream network video.

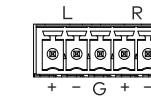**DM-NVX-E30C Connections**

DM-NVX-D30C Connections

AUDIO Connector Pin Assignments

The AUDIO connector uses a 5-pin terminal block for balanced or unbalanced analog audio output.
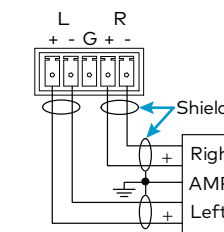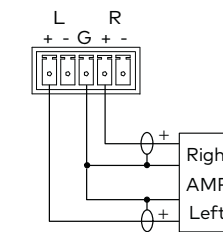
AUDIO Connector

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

LED Indicators

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

LED Indicator	Color	Meaning
NV	Green	(DM-NVX-E30C only) The device is encoding (transmitting) network video. (DM-NVX-D30C only) The device is decoding (receiving) network video.
OL	Green	The card is online with a control system.
LAN	Green	An Ethernet link is established.
	Flashing amber	Data activity is occurring on the Ethernet link.
HDMI INPUT (DM-NVX-E30C only)	Green	An HDMI signal is detected at the HDMI input.
HDMI OUTPUT (DM-NVX-D30C only)	Green	An HDMI signal is being transmitted at the HDMI output.

›› Upgrade the Firmware

Before using the device, upgrade the firmware. The latest firmware can be downloaded from the Crestron website (www.crestron.com).

➤➤ Configure the Device

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 the 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. The default user name and password are both *admin*.

➤➤ Connect to the Crestron XiO Cloud Service

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 Crestron XiO Cloud account.

To connect the card to the Crestron XiO Cloud service:

1. Record the MAC address and serial number that are labeled on the shipping box or printed circuit board (PCB). The MAC address and serial number are required in order to add the card to the Crestron XiO Cloud environment.

2. Do either of the following:

   - If you have a Crestron XiO Cloud account, go to https://portal.crestron.io to access the Crestron XiO Cloud service.
   - If you do not have a Crestron XiO Cloud account, go to www.crestron.com/xiocloud to register for an account.

For detailed information about using the Crestron XiO Cloud service, refer to the Crestron XiO Cloud Service User Guide (Doc. 8214) at www.crestron.com/manuals.

➤➤ Additional Information

Scan or click the QR code for detailed product information.

DM-NVX-E30C

DM-NVX-D30C

HDMI