

DM NVX® 4K60 4:4:4 HDR Network AV Encoder/Decoder Cards

The Crestron® [DM-NVX-350C](#), [DM-NVX-351C](#), and [DM-NVX-352C](#) network AV encoder/decoder cards transport ultra high-definition 4K60 4:4:4 HDR video over standard Gigabit Ethernet.



In the Box

- 1 DM-NVX-350C, DM-NVX-351C, or DM-NVX-352C Network AV Encoder/Decoder Card

Additional Item

- 1 Connector, 5-Pin (2003577)



Install the Card

The DM-NVX-350C, DM-NVX-351C, and DM-NVX-352C are designed to occupy the DMF-CI-8 chassis.

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

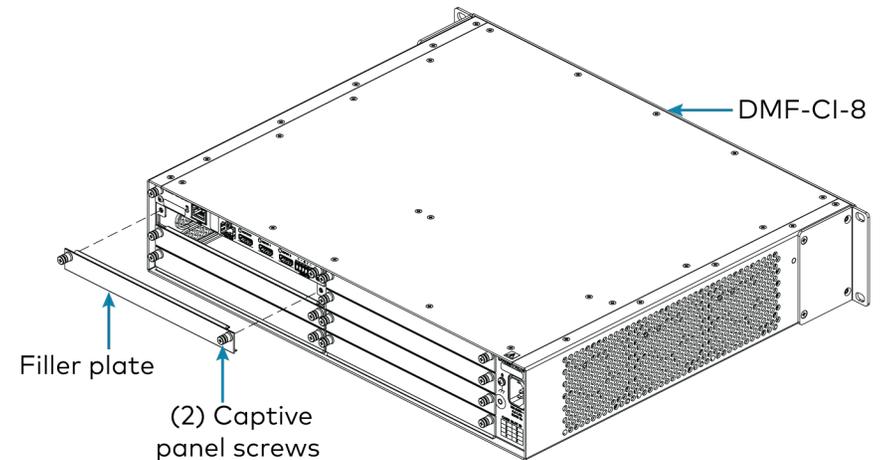
- DM NVX® cards are susceptible to damage from electrostatic discharge (ESD). Observe standard ESD precautions when handling the cards. Wear an ESD wrist strap that is connected to ground, and place the cards on grounded surfaces only.
- To prevent damage to a card that is connected to cables, disconnect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

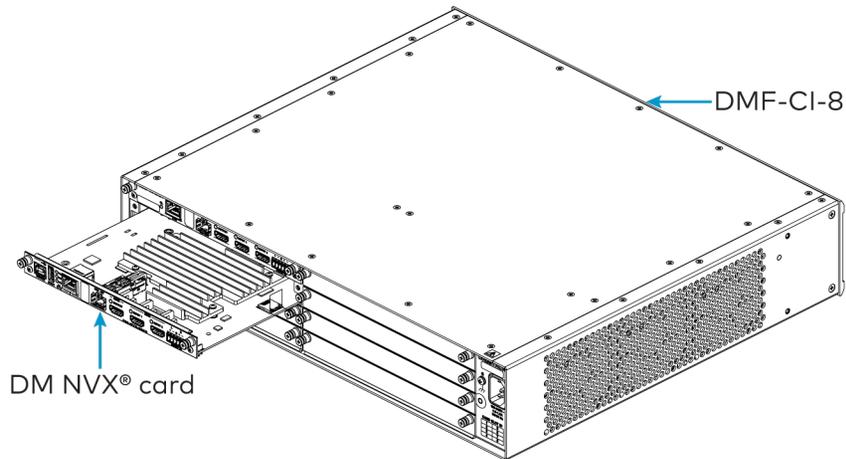
To install a card into the DMF-CI-8:

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.

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



Connect the Card

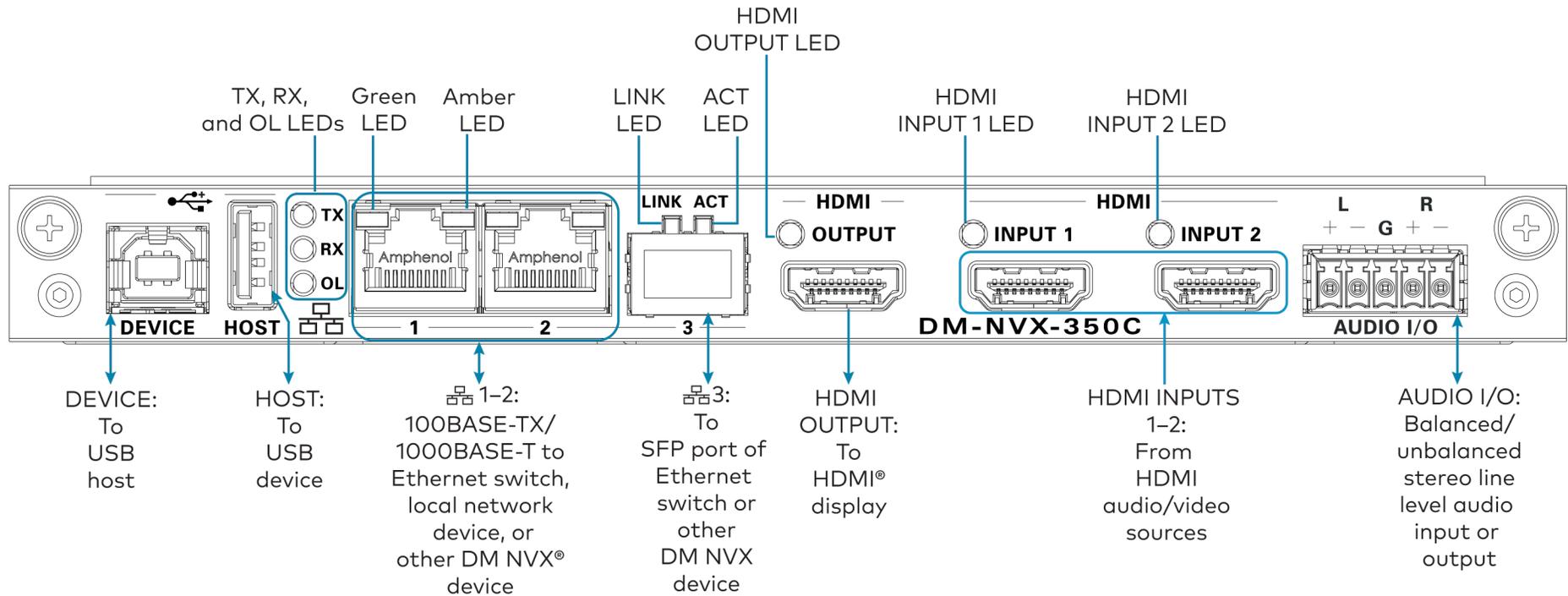
Connect the card as required for the application.

NOTES:

- The cards can be configured to use either the DEVICE port or the HOST port. Both ports cannot be used simultaneously.
- The DM-NVX-350C and DM-NVX-351C each provide three LAN ports. LAN ports 1 and 2 are 100BASE-TX/1000BASE-T ports. LAN port 3 is an SFP port.
- The DM-NVX-352C provides two LAN ports. LAN port 1 is a 100BASE-TX/1000BASE-T port. LAN port 2 is an SFP port.
- An SFP port connects to a fiber-optic network using the appropriate Crestron SFP-1G Series transceiver module (sold separately). For information about installing a Crestron SFP-1G transceiver module, refer to the SFP-1G Series Installation Guide (Doc. 7979) at www.crestron.com/manuals.
- Only one LAN port at a time can be used as the primary LAN connection to a 1000BASE-T switch in order to stream network video. Any other LAN port can then be used for connection to a local network device or to another DM NVX device.

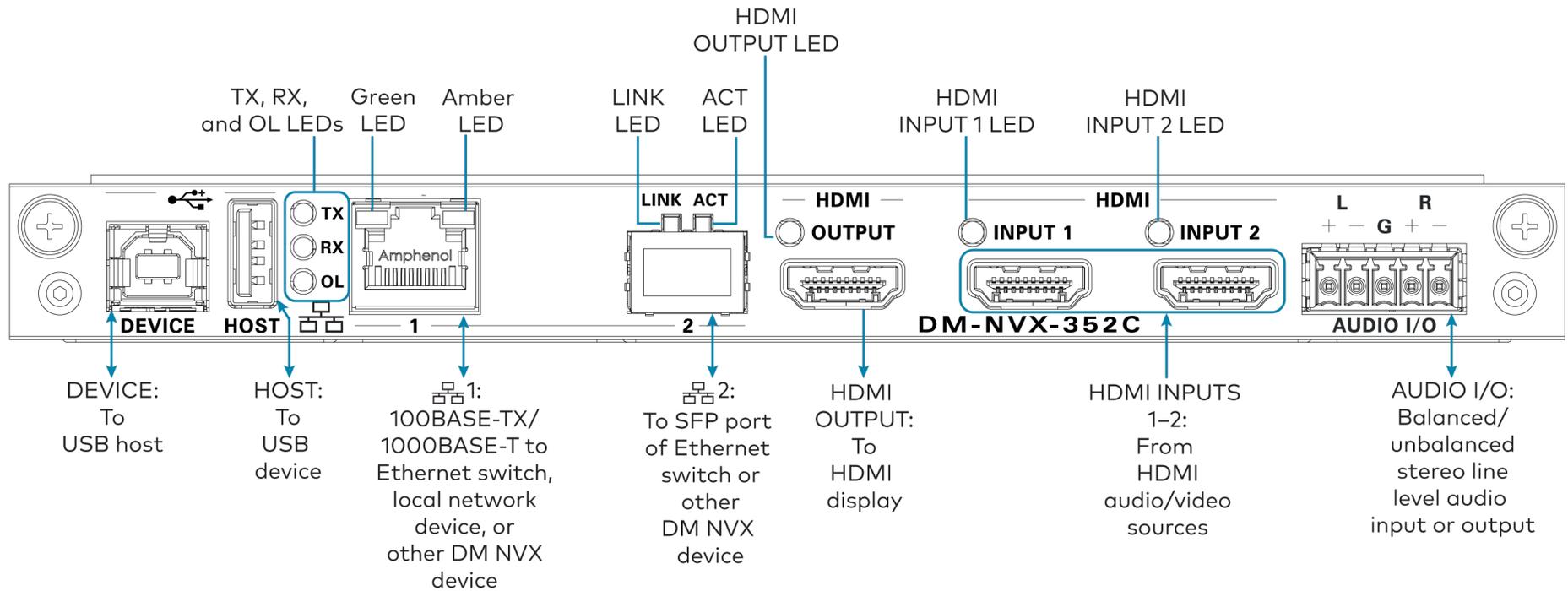
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DM-NVX-350C and DM-NVX-351C Connections (DM-NVX-350C Shown)



DM NVX® 4K60 4:4:4 HDR Network AV Encoder/Decoder Cards

DM-NVX-352 Connections

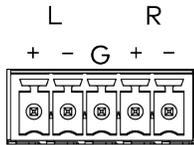


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AUDIO I/O Connector Pin Assignments

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

AUDIO I/O Connector

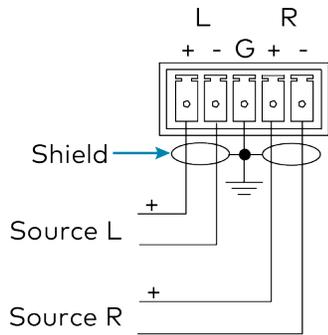


Balanced/Unbalanced Audio Input

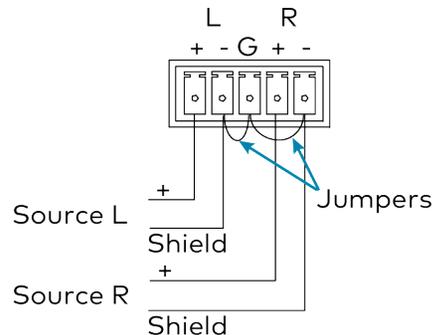
Refer to the following table and diagrams for analog audio input pin assignments and connection information.

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

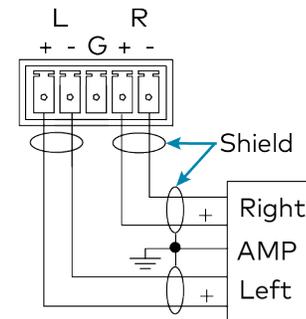


Balanced/Unbalanced Audio Output

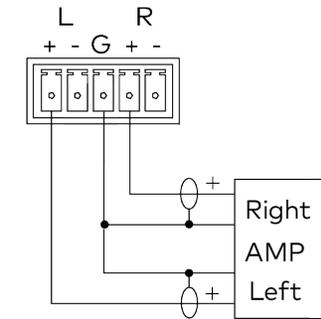
Refer to the following table and diagrams for analog audio output pin assignments and connection information.

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



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LED Indicators

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

LED Indicator	Color	Meaning
TX	Green	The device is in transmitter (encoder) mode.
RX	Green	The device is in receiver (decoder) mode.
OL	Green	The device is online with a control system.
LAN 1	Green	An Ethernet link is established.
	Flashing amber	Data activity is occurring on the Ethernet link.
LAN 2 (DM-NVX-350C and DM-NVX-351C only)	Green	An Ethernet link is established.
	Flashing amber	Data activity is occurring on the Ethernet link.
LAN 2 LINK (DM-NVX-352C only)	Green	An Ethernet link is established.
LAN 2 ACT (DM-NVX-352C only)	Flashing green	Data activity is occurring on the Ethernet link.
LAN 3 LINK (DM-NVX-350C and DM-NVX-351C only)	Green	An Ethernet link is established.
LAN 3 ACT (DM-NVX-350C and DM-NVX-351C only)	Flashing green	Data activity is occurring on the Ethernet link.
HDMI OUTPUT	Green	An HDMI signal is being transmitted at the HDMI output.
HDMI INPUT 1-2	Green	An HDMI signal is detected at the corresponding HDMI input.



Upgrade the Firmware

Before using the device, upgrade the firmware. The latest firmware can be downloaded from the [DM-NVX-350C](#), [DM-NVX-351C](#), or [DM-NVX-352C](#) product page on the Crestron website (www.crestron.com).



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*.

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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 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.



Visit the Product Page

Scan the QR code to visit the product page.

DM-NVX-350C



www.crestron.com/model/6508252

DM-NVX-351C



www.crestron.com/model/6508250

DM-NVX-352C



www.crestron.com/model/6508635

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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.

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HDMI

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