

DM-MD64X64/DM-MD128X128

64X64/128X128 DigitalMedia™ Switchers

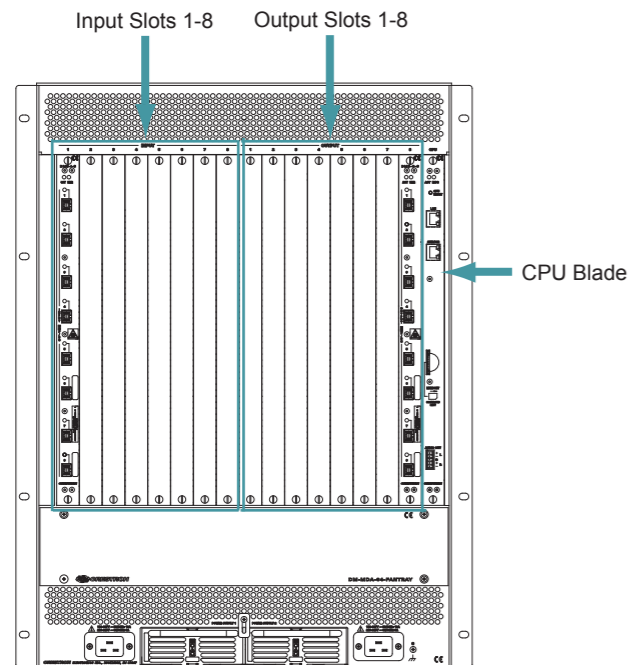
1 Introduction

Input/output (I/O) blades and the CPU blade are installed prior to shipment of the Crestron® DM-MD64X64 and DM-MD128X128:

- The DM-MD64X64 can contain up to 8 input blades and 8 output blades. Input blades occupy input slots 1-8. Output blades occupy output slots 1-8. One DMB-CPU-64 blade occupies the CPU slot.
- The DM-MD128X128 can contain up to 16 input blades and 16 output blades. Input blades occupy input slots 1-16. Output blades occupy output slots 1-16. One DMB-CPU-128 blade occupies the CPU slot.

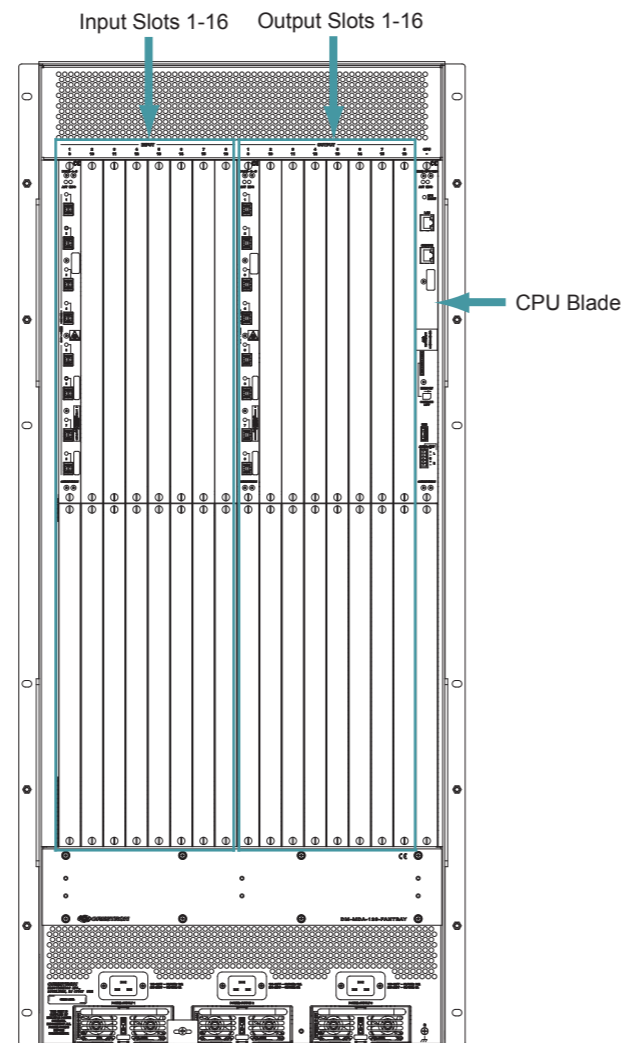
The following illustrations show configurations of the DM-MD64X64 and DM-MD128X128 containing one input blade, one output blade, and the associated CPU blade.

Sample DM-MD64X64 Configuration



In the configuration above, the DM-MD64X64 contains an input blade in input slot 1, an output blade in output slot 8, and the DMB-CPU-64 blade in the CPU slot.

Sample DM-MD128X128 Configuration

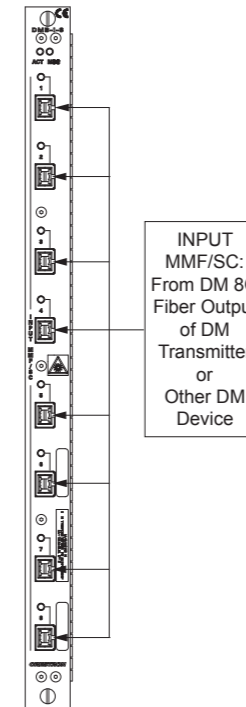


In the configuration above, the DM-MD128X128 contains an input blade in input slot 1, an output blade in output slot 1, and the DMB-CPU-128 blade in the CPU slot.

2 Connecting Input Blades

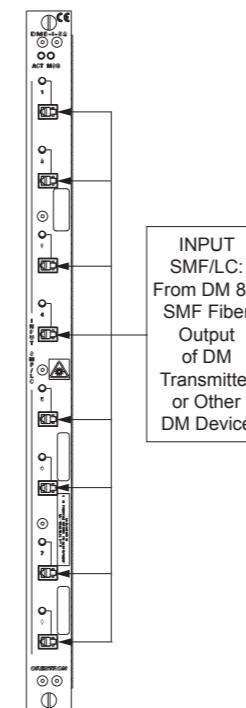
DMB-I-S

Provides eight DM 8G® fiber inputs that connect to DM 8G fiber outputs of DM® transmitters or other DM devices using multimode fiber optic cable (sold separately). Using CRESFIBER8G, the maximum transmission distance is 1000 feet (~300 meters). Using CRESFIBER, CRESFIBER-SINGLE-SC, or third-party OM3 simplex multimode fiber optic cable, the maximum transmission distance is 500 feet (~150 meters).



DMB-I-S2

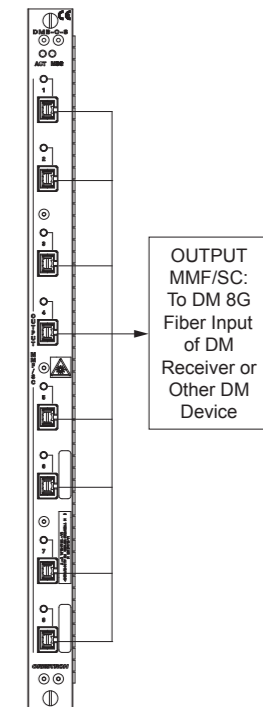
Provides eight DM 8G SMF inputs that connect to DM 8G SMF outputs of DM transmitters or other DM devices using single-mode fiber optic cable (sold separately). Using CRESFIBER8G-SM or third-party G.652.D (or better) single-mode fiber optic cable, the maximum transmission distance is 7.5 miles (12 km).



3 Connecting Output Blades

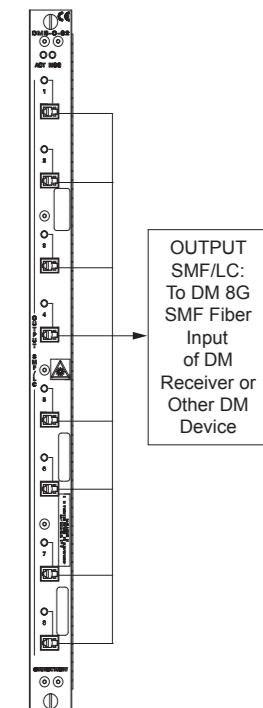
DMB-O-S

Provides eight DM 8G fiber outputs that connect to DM 8G fiber inputs of DM receivers or other DM devices using multimode fiber optic cable (sold separately). Using CRESFIBER8G, the maximum transmission distance is 1000 feet (~300 meters). Using CRESFIBER, CRESFIBER-SINGLE-SC, or third-party OM3 simplex multimode fiber optic cable, the maximum transmission distance is 500 feet (~150 meters).



DMB-O-S2

Provides eight DM 8G single-mode fiber outputs that connect to DM 8G SMF inputs of DM receivers or other DM devices using single-mode fiber optic cable (sold separately). Using CRESFIBER8G-SM or third-party G.652.D (or better) single-mode fiber optic cable, the maximum transmission distance is 7.5 miles (12 km).



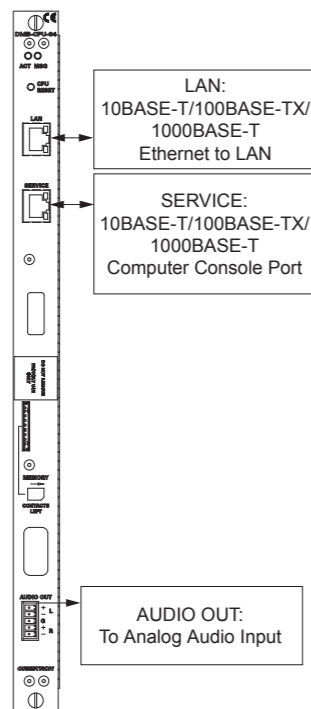
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4 Connecting the CPU Blade

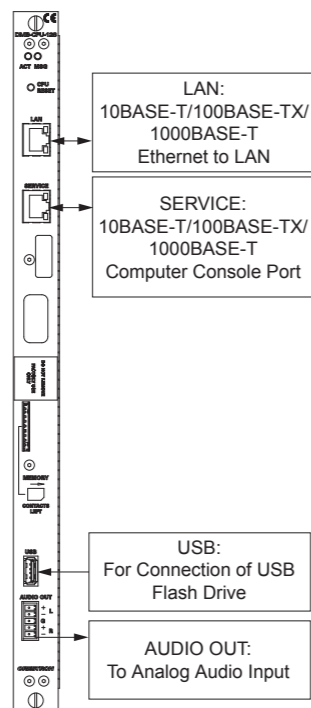
DMB-CPU-64

Provides 10BASE-T/100BASE-TX/1000BASE-T LAN port, computer console SERVICE port, and AUDIO OUT port.



DMB-CPU-128

Provides 10BASE-T/100BASE-TX/1000BASE-T LAN port, computer console SERVICE port, USB, and AUDIO OUT port.



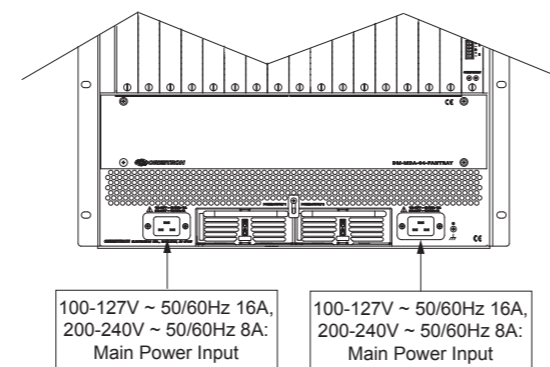
5 Applying Power

NOTE: The DM-MD64X64 requires two 20 A @ 100-127 Vac or two 10 A @ 200-240 Vac circuits. The DM-MD128X128 requires three 20 A @ 100-127 Vac or three 10 A @ 200-240 Vac circuits.

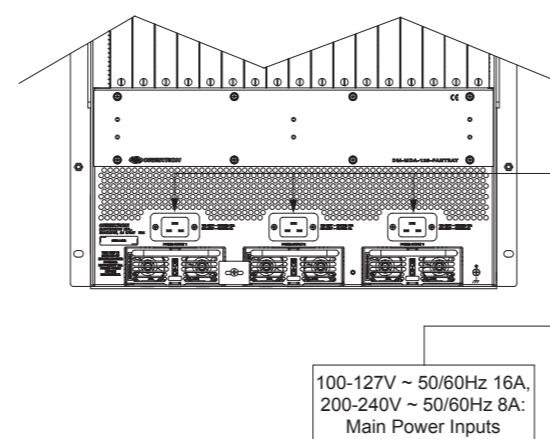
The DM-MD64X64 contains two power supplies; the DM-MD128X128 contains three power supplies. The power supplies provide load balancing and power redundancy.

To apply power to the DM switcher, connect the supplied ac power cords to the power inlets of the switcher. Connect the other end of the power cords to ac power using the same ac voltage type—either 120 Vac or 220 Vac.

DM-MD64X64 Power Connections



DM-MD128X128 Power Connections



6 Configuring Network Settings

Configure network settings on the “Ethernet Setup” screen of the DM switcher user interface:

NOTE: The “Ethernet Setup” screen automatically appears on the front panel touch screen after the DM switcher boots up for the first time.

1. Set **DHCP** to **ON** or **OFF**. The default setting is **ON**.
2. (Optional) Enter a hostname.
3. (Optional) Enter a domain name.
4. (Applicable only if **DHCP** is set to **OFF**) Enter a static IP address, subnet mask, and default router address.
5. Set the system ID. The default setting is 1.

NOTE: Private Network Mode (PNM) is always enabled. When multiple DM switchers are cascaded, assign a unique system ID to each switcher. PNM uses the system ID of each switcher to determine the internal IP address used by each device in the DM system.

NOTE: Each DM switcher must connect directly to the LAN. A DM switcher cannot connect to the LAN through another DM switcher.

6. Set control system connection settings:
 - a. Enter the IP address or hostname of the control system connected to the DM switcher.
 - b. Enter the IP ID of the DM switcher.

7 Configuring EDID

NOTE: For detailed information about EDID configuration, refer to Answer ID 5357 at www.crestron.com/onlinehelp.

For each input, select from among 12 preconfigured EDID (Extended Display Identification Data) configuration files listed on the “EDID Setup” screen of the DM switcher user interface. If desired, an EDID file selected for a single input can be copied automatically to all inputs of the DM switcher.

To select an EDID configuration file:

1. On the “Input Blade” screen of a particular blade, select **Configure EDID** for the input whose EDID file is to be selected.

The “EDID Setup” screen appears, listing the 12 preconfigured EDID files in the **Crestron EDID List** (default setting).

2. Scroll the list and then select the desired EDID file.

A prompt appears asking confirmation that the selected EDID file be sent to the input.

3. Select **Yes** to send the EDID file to the input.

The “EDID Setup” screen indicates the currently selected EDID file.

4. If desired, select **Copy to all inputs** to send the currently selected EDID file to all inputs of the DM switcher; otherwise, select **< Previous Input** or **Next Input >** as appropriate and repeat steps 2 and 3 for each input.

8 Configuring DigitalMedia Endpoints

Advanced configuration tasks for DigitalMedia endpoints (DM-TX transmitters and DM-RMC receivers) include detailed scaler configuration and configuration of video parameters (for example, brightness and contrast). To perform such tasks, refer to the DM-MD64X64/DM-MD128X128: Configuring DigitalMedia Endpoints Quickstart Guide (Doc. 7489) at www.crestron.com/manuals.



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

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