

CPU Blade for DM-MD64X64

- > A CPU blade replacement or upgrade for DM-MD64X64 DM® Switchers
- > More powerful processor for improved performance and faster boot times
- > Enables video preview monitoring of 4K and Ultra HD sources
- > Dedicated Dante® audio networking port^[1]
- > Stereo line-level audio monitoring output with surround sound downmixing
- > USB port for configuration save/load and firmware update via flash drive
- > No programming changes required when upgrading from an older CPU blade

A DMB-4K-CPU-64 CPU blade is included with every DM-MD64X64 DigitalMedia™ Switcher. It may also be purchased separately to provide a backup replacement or as an upgrade to an older CPU blade. Replacement of the CPU blade can be performed on site without requiring any tools and without removing the switcher from the equipment rack. Replacement takes just seconds, although a system reboot may be required to activate the new CPU.

The DMB-4K-CPU-64 features several enhancements over its predecessor, model DMB-CPU-64. Enhancements include support for video preview monitoring of 4K and Ultra HD sources on the switcher's front panel touch screen, a dedicated Dante® audio network port^[1], a USB service port, and a more powerful processor for faster boot times, improved touch screen and web UI response, and increased throughput for endpoint control signals. No programming changes are required when upgrading from an older CPU blade.

The DMB-4K-CPU-64 includes an analog line-level audio output, which can be used to feed an external stereo amplifier and speakers for local audio monitoring. Built-in surround sound decoding and downmixing allows multichannel audio sources to be monitored. Volume and mute controls for this output are provided via the switcher's front panel touch screen or a web browser.



SPECIFICATIONS

Communications

Ethernet: 10/100/1000 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, Private Network Mode, HTTPS web browser setup and control, Crestron control system integration
Dante: Dante network interface via LAN port or dedicated DANTE port^[1]
USB: USB 2.0 host for USB mass storage devices, supports save/load of configuration and EDID settings, supports firmware update

Video

Preview Scaler: (1) 4K video scaler for switcher's front panel preview monitor, motion-adaptive deinterlacing, intelligent frame rate conversion, Deep Color support, 3D to 2D conversion, content-adaptive noise reduction

Maximum Source Resolutions:

| Scan Type | Resolution | Frame Rate | Color Sampling | Color Depth |
|-------------|-------------------------------------|------------|----------------|-------------|
| Progressive | 4096x2160 DCI 4K & 3840x2160 4K UHD | 24 Hz | 4:4:4 | 30 bit |
| | | 30 Hz | 4:4:4 | 24 bit |
| | | 30 Hz | 4:2:2 | 36 bit |
| | | 60 Hz | 4:2:0 | 24 bit |
| | 2560x1600 WQXGA | 60 Hz | 4:4:4 | 36 bit |
| | 1920x1080 HD1080p | 60 Hz | 4:4:4 | 36 bit |
| Interlaced | 1920x1080 HD1080i | 30 Hz | 4:4:4 | 36 bit |

NOTE: Common resolutions are shown; other custom resolutions are supported at pixel clock rates up to 300 MHz

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Audio

Input Signal Types: Dante ^[1]

Output Signal Types: Dante ^[1], analog stereo for local monitoring

Dante I/O: Up to 120 stereo channels in and/or out at up to 24-bit 48 kHz ^[1]

Analog Output Downmix Decoding: Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, Dolby Atmos®, DTS®, DTS ES, DTS 96/24, DTS HD® High Res, DTS HD Master Audio, DTS-X®, LPCM up to 8 channels

Digital-To-Analog Conversion: 24-bit 48 kHz

Analog Volume Adjustment: -80 to 0 dB plus mute, adjustable via switcher's front panel touch screen or web browser

Connectors

LAN: (1) 8-pin RJ45 connector, shielded, female;
10Base-T/100Base-TX/1000Base-T Ethernet LAN port

DANTE: (1) 8-pin RJ45 connector, shielded, female;
1000Base-T Dante network port ^[1]

USB: (1) USB Type A connector, female;
USB 2.0 host port for connection of a USB flash drive;
For save/load of configuration and EDID settings and for firmware update

AUDIO OUT: (1) 5-pin 3.5mm detachable terminal block;
Balanced/unbalanced stereo line-level output for local monitoring;
Output Impedance: 200 Ohms balanced, 100 Ohms unbalanced;
Maximum Output Level: 4 Vrms balanced, 2 Vrms unbalanced

Controls & Indicators

ACT: (1) Green LED, indicates CPU activity

MSG: (1) Red LED, indicates CPU has generated an error message

CPU RESET: (1) Recessed pushbutton, reboots the CPU and front panel

LAN: (2) LEDs, green LED indicates Ethernet link status, amber LED indicates Ethernet activity

DANTE: (2) LEDs, green LED indicates Dante network link status, amber LED indicates Dante network activity

Construction

Plug-in blade, occupies the CPU blade slot of a DM-MD64X64 switcher, includes metal faceplate w/black finish

Weight

1.6 lb (726 g)

Compliance

UL Listed for US & Canada, IC, CE, FCC Part 15 Class B digital device

MODELS

Available Models

DMB-4K-CPU-64: CPU Blade for DM-MD64X64

Notes:

1. Dante audio networking requires the switcher to be equipped with one or more Dante enabled input or output blades, models **DMB-4K-I-HD-DNT** and **DMB-4K-O-HD-DNT**.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

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