## 3-Series® 4K DigitalMedia™ Presentation System 100

The DMPS3-4K-100-C from Crestron® provides an ultra high-definition presentation switcher and control solution that's perfect for huddle rooms, conference rooms, and classrooms. It integrates the control system, multi-format switcher, 4K video scaler, mic preamp, and audio DSP all into one compact device that mounts conveniently under a conference table or in an equipment rack. Built-in Crestron Connect It™ functionality affords a complete collaboration solution that's easy and affordable to deploy in any small to medium sized meeting space. Without requiring any programming, the DMPS3-4K-100-C is easily configurable for a variety of media presentation applications.



- > Ultra high-definition, multi-format presentation switcher, scaler, mic preamp, audio DSP, and control system
- > Out of the box Crestron Connect It™ collaboration system functionality
- > Supports up to four TT-100 series Crestron Connect It Cable Caddies<sup>[1]</sup>
- > Built-in .AV Framework™ delivers a fully-functional system without any programming<sup>[3]</sup>
- > Integrated 3-Series Control System® allows fully-programmable room control
- > Includes four auto-switching HDMI®, VGA, and stereo analog audio inputs [6]
- > Also supports Dual-Mode DisplayPort, DVI, and analog video sources [4,5]
- > Input auto-detection configures each input automatically
- > QuickSwitch HD™ technology manages HDCP keys for fast, reliable switching
- > Auto-Locking® technology achieves rapid switching between disparate sources
- > Performs automatic AV signal format management via EDID
- > Provides adjustable input level compensation on each audio input
- > Includes a single microphone input with EQ, gating, and compression
- > Provides parallel HDMI and DM 8G+® outputs for one or more display devices
- > DigitalMedia 8G+® connectivity enables long-distance wiring over CAT type twisted pair cable [9]
- > Integrates seamlessly with DigitalMedia™ matrix switchers to allow facility-wide signal distribution
- > HDBaseT® Certified Enables direct connection to an HDBaseT certified display device
- > Features a built-in, high-performance 4K scaler
- > Upscales input signals to match the native resolution of any screen including 4K and Ultra HD displays!

- > Downscales 4K, UHD, and ultra high-resolution computer signals to fit 1080p and other lower-resolution displays
- > Handles any input resolution from standard NTSC 480i or PAL 576i, to UHD and 4K
- > Provides intelligent frame rate conversion, content-adaptive noise reduction, and motion-adaptive de-interlacing
- > Provides 3D to 2D signal conversion, and passes 3D video (without scaling) to 3D displays [7]
- > Provides a balanced stereo audio output with graphic EQ, limiting, and delay
- > Enables analog-to-HDMI audio embedding and de-embedding [6]
- > Handles Dolby® TrueHD, Dolby Atmos®, DTS-HD®, and uncompressed 7.1 linear PCM audio [8]
- > Includes onboard IR, RS-232, and Cresnet® control ports
- > Supports Crestron® touch screens, keypads, and wireless remotes
- > Supports XPanel with Smart Graphics® computer and web based control
- > Supports iPhone®, iPad®, and Android™ control apps
- > Supports universal remotes via built-in RC-5 compatible IR receiver
- > Communicates natively with Crestron Fusion®
- > Enables IT-friendly network integration via SNMP
- > Integrated Ethernet switch provides a single-point LAN connection
- > Private Network Mode requires just one IP address for the complete system
- > Includes front panel controls for switching and volume adjustment
- > Includes customizable front panel label strips
- > Allows complete AV setup and adjustment via a web browser
- > Features an internal universal power supply for worldwide compatibility
- > Furnishes power to PoDM and HDBaseT PoE powered devices
- > Mounts under the table or in a single 19" rack space



DMPS3-4K-100-C — Rear View

Auto-switching HDMI®, VGA, and analog audio inputs provide the essential connectivity needed to manage multiple computers and other media sources. A full-featured microphone input is also included for applications requiring high-quality speech reinforcement. The selected input source and microphone can be mixed and routed to one HDMI output and one stereo analog audio output. Additionally, its DigitalMedia  $8G+^{\circledcirc}$  output affords a streamlined, long-distance wiring solution for the display device, and for facility-wide integration as part of a larger media distribution system. Built-in 4K scaling ensures the highest possible image quality, and compatibility with the widest range of sources and displays.

#### 4K Ultra HD

The DMPS3-4K-100-C handles 4K and Ultra HD video signals, which is essential to ensure support for the latest generation of computers and monitors with native resolutions beyond 1080p and WUXGA.

#### **Crestron Connect It™**

Crestron Connect It is a cost-effective, simple-to-use presentation solution that provides tabletop BYOD connectivity and one-touch control for multiple participants around a conference table. Simply add up to four Crestron Connect It Cable Caddies (IT-100 series [1]) to the DMPS3-4K-100-C. Its auto-switching inputs support individual HDMI, VGA, and analog audio connections at each cable caddy. Four USB ports on the DMPS3-4K-100-C provide power and communications for each cable caddy.

A fully functional Crestron Connect It system is enabled right out of the box by simply connecting the cable caddies and input cables. Additional settings and AV adjustments are available through a simple web browser setup screen. In addition to the Crestron Connect It devices, the DMPS3-4K-100-C can also accommodate a single DM receiver and an AirMedia® Presentation Gateway without any additional programming. [1,2]

## **No Programming Required!**

Installing the DMPS3-4K-100-C is easy, fast, and affordable. Built-in .AV Framework™ technology delivers a fully-functional presentation system with simplified configuration and a choice of control options and other add-ons. For complete details on the capabilities supported by .AV Framework, please visit: www.crestron.com/avframework. [3]

#### **Multi-Format Auto-Switcher**

The DMPS3-4K-100-C provides high-performance automatic switching between four groups of inputs, each including HDMI, VGA, and unbalanced stereo audio. The HDMI inputs are compatible with DVI and Dual-Mode DisplayPort sources, and the VGA inputs can handled RGB, composite, S-Video, and component video sources. Digital audio is supported by the HDMI inputs, plus each analog audio input may be used in combination with its corresponding VGA or HDMI video input. Input auto-detection eliminates the need to configure the inputs — simply connect your source

and the DMPS3-4K-100-C selects the right audio and video combination. The switched video signal is routed to one HDMI output and one DM 8G+ $^{\odot}$  output simultaneously. The DM 8G+ output is compatible with HDBaseT $^{\odot}$ .  $^{[4,5,6]}$ 

#### **4K Scaler**

With its high-performance 4K video scaler on board, the DMPS3-4K-100-C ensures an optimal image from every video source. It allows all types of video and computer sources to be viewed reliably and look their best on any display up to 4K. It accepts any input resolution, from standard definition NTSC 480i to ultra high-definition DCI 4K, and scales it perfectly to match the native resolution of any screen up to DCI 4K (4096 x 2160). Interlaced sources are converted to progressive scan using motion-adaptive deinterlacing. Intelligent frame rate conversion enables support for 24p and PAL format sources. And, 3D to 2D conversion allows 3D content to be viewed on 2D-only displays. [7] The output of the scaler feeds both the HDMI and DM 8G+ outputs.

#### **Flexible Audio Outputs**

The switched audio signal is routed to the HDMI output as well as to a separate balanced analog audio output, with individual level adjustments provided for each output. The HDMI output signal is also fed simultaneously to the DM 8G+ output. All inputs and outputs support stereo audio, with the option to configure the analog output for mono. Dolby® TrueHD, Dolby Atmos®, DTS-HD®, and 7.1 linear PCM audio signals can also be routed through the HDMI inputs and output, as well as the DM 8G+ output.<sup>[8]</sup>

### **Professional Audio DSP**

The analog audio output includes professional digital signal processing, allowing the signal to be adjusted for optimum performance and sound quality. The analog output is ideally designed to be connected to an external power amplifier and used to drive a set of ceiling or wall mount speakers. In addition to volume, bass, treble, and mute controls, the DSP provides 10-band graphic equalization, fully-adjustable limiting, and up to 80 ms of delay. All settings are adjustable using the DMPS3-4K-100-C's web browser user interface for easy setup. The output volume level is also adjustable using the front panel volume knob.

## Microphone Input with DSP

A full-featured microphone preamp is included to support the connection of a single wired or wireless mic. Advanced features include fully-adjustable gating and compression, 4-band semi-parametric EQ, and switchable 48V phantom power. The microphone signal can be routed to the analog output, the digital output (HDMI and DM 8G+), or both, with separate level adjustments provided for each.



## DigitalMedia 8G+®

Its DM 8G+ output endows the DMPS3-4K-100-C with great potential for connecting to a display device and integrating with larger systems. DM 8G+ provides a true one-wire interface for transporting ultra high-definition video, audio, control, power, and networking signals over CAT type cable at distances up to 330 feet (100 meters). Connecting a DM 8G+ receiver to the DM 8G+ output provides a streamlined AV and control interface for a single projector or flat panel display located anywhere in the room. DM 8G+ can also provide the interface to a centralized DigitalMedia™ matrix switcher, allowing the DMPS3-4K-100-C's output signal to be distributed to other rooms and buildings. [9]

#### **HDBaseT® Certified**

Crestron DM 8G+ technology is designed using HDBaseT Alliance specifications, ensuring interoperability with other HDBaseT certified products. Via DM 8G+, the DMPS3-4K-100-C can be connected directly to an HDBaseT compliant display device without requiring a DM 8G+ receiver.

## **EDID Format Management**

The DMPS3-4K-100-C provides comprehensive management of the EDID (Extended Display Identification Data) information that passes between display devices and input sources, ensuring that each source gets displayed at its optimal resolution and format. Most applications require no changes to the default settings. For applications requiring custom configuration, the DMPS3-4K-100-C allows for easy assessment of each device's format and resolution capabilities, with the ability to configure signals appropriately for the most desirable and predictable behavior.

## QuickSwitch HD™ Technology

Handling digital media signals means handling HDCP (High-bandwidth Digital Content Protection), the encryption scheme used by content providers to protect their DVDs, Blu-ray™ discs, and broadcast signals against unauthorized copying. Viewing HDCP encrypted content requires a source device to "authenticate" each display and signal processor in the system and issue it a "key" before delivering an output signal. Crestron QuickSwitch HD manages these keys to ensure fast, reliable switching and immunity to "blackouts," whether using a single display, or distributing to multiple displays through a larger DigitalMedia system.

#### Auto-Locking® Technology

Crestron Auto-Locking Technology enables super fast signal switching by instantaneously configuring every device in the signal path, including DM receivers and scalers, as soon as the signal hits the first device. Whether switching between sources or TV channels, Auto-Locking significantly reduces the time it takes each device to sense the new signal and configure itself to handle the changes, virtually eliminating any noticeable gap while switching.

## Integrated 3-Series Control System®

Its built-in 3-Series control system enables the DMPS3-4K-100-C to provide complete, customizable control of every AV device, as well as room lighting, window shades, and projection screens, without requiring a separate control processor. Onboard control ports include one IR port and one RS-232 COM port, as well as Cresnet® and Ethernet. The DMPS3-4K-100-C supports the full line of Crestron touch screens,

keypads, and wireless remotes for a user experience custom tailored to the specific requirements of each end-user. Support for Crestron control apps and Crestron Fusion® delivers the industry's most powerful platform for remotely controlling and managing multiple rooms using computers and mobile devices.

#### **CEC Embedded Device Control**

For controlling third-party AV devices, the DMPS3-4K-100-C provides an alternative to conventional IR, RS-232, and Ethernet by harnessing the CEC (Consumer Electronics Control) signal embedded in HDMI. Using CEC, many devices can be controlled right through their HDMI or HDBaseT connections, eliminating the need for any dedicated serial cables or IR emitters.

#### **Built-in Ethernet Switch**

In addition to transporting digital video and audio, the DM 8G+ output port can also extend Ethernet out to the display device, providing a high-speed LAN connection for the display via the DM receiver. Ethernet is also utilized internally by the Crestron control bus to manage the receiver and provide device control.

#### **Private Network Mode**

To streamline its implementation on a corporate or university LAN, the DMPS3-4K-100-C employs Private Network Mode to provide a single-point connection for the complete system. Using Private Network Mode, the DMPS3-4K-100-C requires just one IP address.

#### **SPECIFICATIONS**

#### **Operating System**

Crestron 3-Series; real-time, preemptive, multi-threaded/multitasking kernel; Transaction-Safe Extended FAT file system; supports up to 10 simultaneously running programs; preloaded DMPS3 .AV Framework Base Program; out-of-the-box "Crestron Connect It" functionality

### **Control System Memory**

SDRAM: 1 GB Flash: 4 GB

#### Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, industry-standard TCP/IP stack, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1X, SNMP, BACnet™/IP [10], IPv4 or IPv6, Active Directory authentication, IIS v.6.0 web server, SMTP e-mail client, RSTP, Private Network Mode

Cresnet: Cresnet master mode

USB: USB host ports for Crestron Connect It devices and firmware update via USB flash drive; USB device port for computer console (setup) RS-232: 2-way device control and monitoring up to 115.2k baud with hardware and software handshaking

IR/Serial: 1-way device control via infrared up to 1.2 MHz or serial TTL/RS-232 (0-5 Volts) up to 115.2k baud; built-in RC-5 compatible IR receiver



**DigitalMedia:** DM 8G+, HDCP, EDID, CEC, PoDM, Ethernet **HDBaseT:** HDCP, EDID, CEC, RS-232, PoE, Ethernet

HDMI: HDCP, EDID, CEC

NOTE: Supports management of HDCP and EDID; supports management of CEC between the connected HDMI and HDBaseT devices and the

control system

#### Video

Switcher: 8x1 (organized as multi-format 4x1), auto-switching, autodetecting multi-format digital/analog source inputs, QuickSwitch HD technology

Scaler: 4K video scaler, motion-adaptive deinterlacer, intelligent frame rate conversion, Deep Color support, 3D to 2D conversion<sup>[7]</sup>, content-adaptive noise reduction, widescreen format selection (zoom, stretch, maintain aspect-ratio, or 1:1)

Input Signal Types: HDMI w/Deep Color, 3D, & 4K (DVI & Dual-Mode DisplayPort compatible [4]); RGB/VGA (RGBHV, RGBS, RGsB); component (YPbPr); S-Video (Y/C); composite (NTSC, PAL) [5]

Output Signal Types: HDMI w/Deep Color, 3D, & 4K (DVI compatible [4]);

DM 8G+ & HDBaseT w/Deep Color, 3D, & 4K

Analog-To-Digital Conversion: 10-bit 165 MHz per each of 3 channels

## Maximum Pass-Through Resolutions:

Input Type	Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
	Progressive	4096x2160 DCl 4K or 3840x2160 4K UHD	24 Hz	4:4:4	30 bit
			30 Hz	4:4:4	24 bit
D.M.			30 Hz	4:2:2	36 bit
HDMI			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
DODAGA	Progressive	1600x1200 UXGA	60 Hz	n/a	
RGB/VGA		1920x1200 WUXGA	60 Hz	n/a	
Component	Progressive	1920x1080 HD1080p	60 Hz	n/a	
	Interlaced	1920x1080 HD1080i	30 Hz	n/a	
Composite or S-Video [5]	Interlaced	480i NTSC or 576i PAL	60 Hz	n/a	

#### **Maximum Scaler Input Resolutions:**

Input Type	Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
	Progressive	4096x2160 DCI 4K or 3840x2160 4K UHD	24 Hz	4:4:4	30 bit
			30 Hz	4:4:4	24 bit
HDMI			30 Hz	4:2:2	36 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
RGB/VGA	Progressive	1600x1200 UXGA	60 Hz	n/a	
		1920x1200 WUXGA	60 Hz	n/a	

Input Type	Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
Component	Progressive	1920x1080 HD1080p	60 Hz	n/a	
	Interlaced	1920x1080 HD1080i	30 Hz	n/a	
Composite or S-Video [5]	Interlaced	480i NTSC or 576i PAL	60 Hz	n/a	

#### **Maximum Scaler Output Resolutions:**

Output Type	Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
HDMI, DM, or HDBaseT	Progressive	4096x2160 DCI 4K	24 Hz	4:4:4	30 bit
		or	30 Hz	4:4:4	24 bit
		3840x2160 4K UHD	30 Hz	4:2:2	36 bit
		2560x1600 WQXGA	60 Hz	4:4:4	36 bit
		1920x1080 HD1080p	60 Hz	4:4:4	36 bit

NOTE: Common resolutions are shown; other custom resolutions are supported at pixel clock rates up to 300 MHz for digital inputs and outputs, or 165 MHz for analog inputs

### Audio - General

Switcher/Mixer: 8x1 (organized as multi-format 4x1) stereo source switcher, auto-detecting digital/analog source inputs, single-channel gated mic preamp w/DSP, two independent mic/source mixers (one for analog output, one for digital outputs), stereo DSP for analog output, 4x1 multichannel source switcher, digital audio mixer bypass mode for multichannel pass-through to digital outputs

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

Frequency Response: 20 Hz to 20 kHz ±0.5 dB (digital source);

20 Hz to 20 kHz  $\pm 0.5$  dB (analog line source); 20 Hz to 20 kHz  $\pm 0.7$  dB (microphone source)

S/N Ratio: >108 dB, 1 kHz, A-weighted (digital source);

>103 dB, 1 kHz, A-weighted (analog line source)

**THD+N:** <0.002%, 20 Hz to 20 kHz (digital source);

<0.005%, 20 Hz to 20 kHz (analog line source);

<0.05%, 20 Hz to 20 kHz (microphone source)

Stereo Separation: >108 dB (digital source);

>103 dB (analog source)

## Audio - Microphone Input

Input Signal Type: Mono analog mic level

Phantom Power: Enable/Disable

Gain: 0 to +60 dB Gain adjustment, plus Mute

EQ Center Frequencies: 50 to 200 Hz (Band 1); 200 to 800 Hz (Band 2);

800 to 3.2k Hz (Band 3); 3.2k to 12.8k Hz (Band 4)

**EQ Gain:** ±12.0 dB per band **Gating Threshold:** -80 to 0 dB

Gating Depth (Attenuation): -80 to 0 dB

Gating Attack: 1 to 250 ms Gating Release: 1 to 1000 ms Gating Hold: 1 to 200 ms



Compression Threshold: -80 to 0 dB Compression Ratio: 1:1 to 10:1 Compression Attack: 1 to 250 ms Compression Release: 1 to 1000 ms Compression Hold: 1 to 200 ms Compression Curve: Hard or soft knee

## Audio - Source Inputs

Typical of 8 source input channels (Audio Inputs 1-4, HDMI Inputs 1-4) Input Signal Types: Analog 2-channel <sup>[6]</sup>, HDMI (Dual-Mode DisplayPort compatible <sup>[4]</sup>)

Analog Formats: Stereo 2-channel

**Digital Formats:** 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, LPCM up to 8 channels [8]

Input Compensation: ±10.0 dB [8]

### Audio - Analog Line Output

Output Signal Type/Format: Stereo 2-channel

Mic: -80 to +10 dB Level adjustment range, plus Mute and Pan Source: -80 to +10 dB Level adjustment range, plus Mute and Balance Master Volume: -80 to +10 dB Level adjustment range, plus Mute

and Mono Bass: ±12.0 dB Treble: ±12.0 dB

Equalization: 10-band graphic

GEQ Center Frequencies: 31.5, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz

GEQ Gain: ±12.0 dB per band Delay: 0.0 to 80.0 ms

Limiter Threshold: -80 to 0 dBz Limiter Ratio: 1:1 to 10:1 Limiter Attack: 1 to 250 ms Limiter Release: 1 to 1000 ms Limiter Curve: Hard or soft knee

### Audio - Digital Output

Output Signal Types: HDMI, DM 8G+ & HDBaseT

Formats: 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, LPCM up to 8 channels [8]

Mic: -80 to +10 dB Level adjustment range, plus Mute and Pan <sup>[8]</sup> Source: -80 to +10 dB Level adjustment range, plus Mute and Balance <sup>[8]</sup> Master Volume: -80 to +10 dB Level adjustment range, plus Mute <sup>[8]</sup>

## Connectors - Audio/Video Inputs

**VGA IN 1 – 4:** (4) HD15 female; Analog VGA/RGB/video inputs;

Signal Types: VGA, RGB, component, S-Video, or composite [5];

Formats: RGBHV, RGBS, RGsB, YPbPr, Y/C, NTSC or PAL; Input Level: 0.5 to 1.5 Vp-p with built-in DC restoration;

Input Impedance: 75 Ohms nominal;

Sync Detection: RGBHV, RGBS, RGsB, YPbPr;

Sync Input Level: 3 to 5 Vp-p; Sync Input Impedance: 2.2k Ohms

AUDIO IN 1-4: (4) 3.5 mm TRS mini phone jacks; Unbalanced stereo line-level analog audio inputs;

Input Impedance: 32k Ohms unbalanced;
Maximum Input Level: 2.8 Vrms unbalanced;

Note: If an HDMI input is selected but no digital audio signal is detected, the corresponding analog audio input is activated (AUDIO 1 for HDMI 1, etc.). Please note, the analog audio inputs do not pass audio if the HDMI video input resolution is higher than 1920x1200.

**HDMI IN 1 – 4:** (4) 19-pin Type A HDMI female;

Digital video/audio inputs;

Signal Types: HDMI, DVI, or Dual-Mode DisplayPort [4]

MIC IN: (1) 3-pin 3.5 mm detachable terminal block;

Balanced microphone audio input;

Input Level: -60 to 0 dBV, 1 Vrms maximum; Input Impedance: 6.5k Ohms balanced:

Phantom Power: 48 Volts DC, software enabled/disabled

### Connectors - Audio/Video Outputs

**HDMI OUT:** (1) 19-pin Type A HDMI female;

Digital video/audio output; Signal Types: HDMI, DVI [4]

**DM OUT:** (1) 8-pin RJ45 female, shielded; DM 8G+ output, HDBaseT compliant; PoDM PSE port (HDBaseT PoE compatible);

Connects to the DM 8G+ input of a DM receiver or other DM device, or to an HDBaseT device, via CAT5e, Crestron DM-CBL-8G, or Crestron

DM-CBL-ULTRA cable [9]

**AUDIO OUT:** (1) 5-pin 3.5 mm detachable terminal block; Balanced/unbalanced stereo line-level audio output;

Output Impedance: 200 Ohms balanced, 100 Ohms unbalanced; Maximum Output Level: 4 Vrms balanced, 2 Vrms unbalanced

#### Connectors - Control & Power

**IR OUT:** (1) 3.5 mm mini-phone jack:

IR/Serial output port;
IR output up to 1.2 MHz;

1-way serial TTL/RS-232 (0-5 Volts) up to 115.2k baud

COM: (1) 5-pin 3.5 mm detachable terminal block:

Bidirectional RS-232 port;

Up to 115.2k baud, hardware and software handshaking support

LAN: (1) 8-pin RJ45 female;

10Base-T/100Base-TX Ethernet port

USB 1 - 4: (4) USB Type A female:

USB 2.0 host ports for TT-100 series Crestron Connect It Cable Caddies [1]; Also enables firmware update via USB flash drive

G: (1) 6-32 screw, chassis ground lug



NET: (1) 4-pin 3.5 mm detachable terminal block;

Cresnet Master port:

Available Cresnet Power: 24 Watts

100-240V~1.4A 50/60Hz: (1) IEC 60320 C14 main power inlet;

Mates with removable power cord, included

COMPUTER (front): (1) USB Type B female;

USB computer console port;

For setup only

IR IN (front): (1) Infrared sensor; IR Frequency: 36 to 38 kHz; IR Formats: Crestron format, RC5;

Allows control from IR wireless remotes using the Crestron or RC-5

command sets

## Controls & Indicators

**PWR:** (1) Bi-color green/amber LED, indicates operating power supplied from AC line power, turns amber while booting and green when operating

NET: (1) Yellow LED, indicates Cresnet bus activity

**MSG:** (1) Red LED, indicates internal control system has generated an error message

**HW-R:** (1) Recessed pushbutton for hardware reset, reboots the control system

**SW-R:** (1) Recessed pushbutton for software reset, restarts the software program

**AUTO INPUT SELECT:** (1) Pushbutton and bi-color green/amber LED, selects auto-switching mode

VGA INPUT SELECT 1-4: (4) Pushbuttons for manual input selection, and (4) bi-color green/amber LEDs to indicate the current active input and signal presence at each corresponding VGA input

**HDMI INPUT SELECT 1 – 4:** (4) Pushbuttons for manual input selection, and (4) bi-color green/amber LEDs to indicate the current active input and signal presence at each corresponding HDMI input

**VOLUME**: (1) Continuous turn rotary encoder, adjusts the analog audio output volume

**DM OUT (rear):** (2) LEDs, green LED indicates DM link status, amber LED indicates video and HDCP signal presence, for the DM output

**LAN (rear):** (2) LEDs, bi-color LED (left) indicates Ethernet speed and activity, green LED (right) indicates Ethernet link status

#### Power

Main Power: 1.4 Amps @ 100-240 Volts AC, 50/60 Hz Power Consumption: 36 Watts typical, 26 Watts idle

Available Cresnet Power: 24 Watts

**Power over DM (PoDM):** IEEE 802.3at compliant PoDM PSE (Power Sourcing Equipment), DM OUT port supplies up to 15.4 Watts to power one

PoDM (Class 0-3) PD (Powered Device) [11]

**Power over HDBaseT:** IEEE 802.3at PoE compliant PSE (Power Sourcing Equipment), DM OUT port supplies up to 15.4 Watts to power one HDBaseT

PoE (Class 0-3) PD (Powered Device) [11]

#### **Environmental**

Temperature: 41° to 104° F (5° to 40° C)

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 122 BTU/hr typical. 89 BTU/hr idle

#### **Enclosure**

Chassis: Metal, black finish, fan-cooled, vented sides

**Front Panel:** Metal, black finish with polycarbonate label overlay **Mounting:** Freestanding, 1 RU 19-inch rackmount, or under-table mount (adhesive feet, rack ears, and under-table mounting brackets included)

#### **Dimensions**

Height: 1.74 in (45 mm) without feet

Width: 17.28 in (439 mm);

18.94 in (482 mm) with rack ears

**Depth:** 10.47 in (266 mm)

#### Weight

6.4 lb (2.9 kg)

## DM 8G+ & HDBaseT Maximum Cable Lengths

Cable Type:	DM-CBL-ULTRA DM® Ultra Cable	DM-CBL-8G DM 8G <sup>®</sup> Cable	CAT5e (or better) [9]
1080p60 Full HD			
1920x1200 WUXGA		330 ft	330 ft
1600x1200 UXGA		(100 m)	(100 m)
2048x1080 DCI 2K	330 ft		
2560x1440 WQHD	(100 m)		
2560x1600 WQXGA		230 ft	165 ft
3840x2160 4K UHD		(70 m)	(50 m)
4096x2160 DCI 4K			

## **MODELS & ACCESSORIES**

#### **Available Models**

DMPS3-4K-100-C: 3-Series® 4K DigitalMedia™ Presentation System 100

#### **Available Accessories**

TT-100 Series: Crestron Connect It™ Cable Caddy

TSW-760: 7" Touch Screen TSW-1060: 10.1" Touch Screen

MP-B10: Media Presentation Button Panel B10 AM-101: AirMedia® Presentation Gateway MP-AMP30: Media Presentation Audio Amplifier

MP-AMP40 Series: Media Presentation Audio Amplifiers, 70 or 100 Volt

**AMP Series:** Commercial Power Amplifiers

DM-RMC-4K-100-C-1G: Wall Plate 4K DigitalMedia 8G+® Receiver &

Room Controller 100

DM-RMC-4K-100-C: 4K DigitalMedia 8G+® Receiver & Room

Controller 100

DM-RMC-4K-SCALER-C: 4K DigitalMedia 8G+® Receiver & Room

Controller w/Scaler

DM-RMC-4K-SCALER-C-DSP: 4K DigitalMedia 8G+® Receiver & Room

Controller w/Scaler & Downmixing

DM-RMC-200-C: DigitalMedia 8G+® Receiver & Room Controller 200 DM-RMC-SCALER-C: DigitalMedia 8G+® Receiver & Room Controller

w/Scaler

**USB-EXT-DM:** USB over Ethernet Extender with Routing

GLS-ODT-C-CN: Dual-Technology Occupancy Sensor with Cresnet® GLS-OIR-C-CN: Passive Infrared Occupancy Sensor with Cresnet®

Crestron Fusion®: Enterprise Management Platform Crestron® App: Control App for Apple® iOS® & Android™

**XPanel:** Crestron Control® for Computers

3-Series® BACnet™/IP Support: 3-Series Native BACnet/IP Interface

License

CSP-LIR-USB: IR Learner

STIRP: IR Emitter Probe w/3.5mm Mini Phone Plug

CNSP-XX: Custom Serial Interface Cable

DM-CONN-ULTRA-RECP: DigitalMedia™ Ultra Keystone RJ45 Jack

DM-CBL-ULTRA-PC: DigitalMedia™ Ultra Patch Cables

DM-CBL-ULTRA: DigitalMedia<sup>™</sup> Ultra Cable
DM-CONN: Connector for DM-CBL-ULTRA
DM-CBL-8G: DigitalMedia 8G<sup>™</sup> Cable
DM-8G-CONN: Connector for DM-CBL-8G
DM-8G-CRIMP: Crimping Tool for DM-8G-CONN

**DM-8G-CONN-WG:** Connector with Wire Guide for DM-CBL-8G **DM-8G-CRIMP-WG:** Crimping Tool for DM-8G-CONN-WG

CRESNET: Cresnet® Control Cable

CBL Series: Crestron® Certified Interface Cables MP-WP Series: Media Presentation Wall Plates

MPI-WP Series: Media Presentation Wall Plates - International Version

#### Notes:

- 1. Item(s) sold separately.
- The AirMedia Presentation Gateway, model AM-101, requires one HDMI input on the DMPS3-4K-100-C.
- Some features and functions described in this spec sheet may not be supported using .AV Framework. For a complete list of capabilities and options supported by .AV Framework, please visit: www.crestron.com/avframework.
- HDMI connections require an appropriate adapter or interface cable to accommodate a DVI or Dual-Mode DisplayPort signal. CBL-HD-DVI interface cables are available separately.
- The VGA inputs can accept component, composite, and S-Video signals using an appropriate adapter (not included). However, input sync detection is not provided for composite or S-Video signal types.
- When using an analog audio input in combination with an HDMI video input, the source's video resolution must be 1920x1200 or lower. The analog audio input will not pass audio if the source's video resolution is higher than 1920x1200.
- Automatically passes 3D video if the display device supports it (reverts to pass-through mode without scaling). Provides automatic 3D-to-2D conversion (with scaling) if the display device does not support 3D.
- 8. Routing of a multichannel audio signal via a digital input and output (HDMI or DM) requires the input to be set for "mixer bypass" mode. When that input is selected, all audio controls on the digital output are disabled and the ability to route the microphone signal to that output is defeated. Mixer bypass mode also disables the Input Compensation control on that input.
- 9. The maximum cable length for DigitalMedia 8G+ (DM 8G+) or HDBaseT is dependent upon the type of cable and resolution of the video signal. Refer to the "DM 8G+ & HDBaseT Maximum Cable Lengths" table for a detailed overview. Crestron legacy cable models DM-CBL DigitalMedia Cable and DM-CBL-D DigitalMedia D Cable support the same resolutions and cable lengths as CAT5e. Shielded cable and connectors are recommended to safeguard against unpredictable environmental electrical noise which may impact performance at resolutions above 1080p. Refer to the Crestron DigitalMedia Design Guide, Doc. #4546 for complete system design guidelines. DM 8G+ is compatible with HDBaseT Alliance specifications for connecting to HDBaseT compliant equipment. All wire and cables are sold separately.
- License required. The DMPS3-4K-100-C supports a maximum of 500 BACnet objects when
  dedicated for BACnet use only. Actual capabilities are contingent upon the overall program size
  and complexity.
- 11. Due to the inherent power loss that occurs over CATx cable, a maximum of 12.95 Watts is delivered at the PoDM or HDBaseT PoE powered device. Any wiring that is connected to a PoDM or HDBaseT PoE PSE port is for intra-building use only and should not be connected to a line that runs outside of the building in which the PSE is located.

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 <a href="https://www.crestron.com/salesreps">www.crestron.com/salesreps</a> or by calling 800-237-2041.

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

Certain Crestron products contain open source software. For specific information, please visit <a href="https://www.crestron.com/opensource">www.crestron.com/opensource</a>.

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# **DMPS3-4K-100-C** 3-Series<sup>®</sup> 4K DigitalMedia<sup>™</sup> Presentation System 100

