

## DigitalMedia 8G® Fiber Transmitter 201



- *DigitalMedia 8G® Fiber transmitter and multimedia interface*
- *Built-in 2x1 AV switcher with auto-switching and analog audio-breakaway*
- *QuickSwitch HD® technology achieves fast, reliable switching*
- *Connects to a DM® switcher or receiver over one multimode fiber strand<sup>1</sup>*
- *Supports cable lengths up to 1000 ft (300 m) using CresFiber® 8G, or 500 ft (150 m) using other multimode fiber<sup>1</sup>*
- *HDMI® and RGB/component video inputs<sup>3</sup>*
- *Supports DVI and DisplayPort Multimode sources<sup>2</sup>*
- *Handles video resolutions up to Full HD 1080p*
- *Handles computer resolutions up to WUXGA*
- *Handles Dolby Digital®, DTS®, and uncompressed 7.1 linear PCM audio*
- *HDCP compliant*
- *1/8 in. (3.5 mm) TRS unbalanced stereo line-level analog audio input*
- *Local HDMI monitor output*
- *Detects and reports detailed video and audio input information*
- *Performs automatic AV signal format management via EDID*
- *Provides a 10/100 Ethernet LAN connection*
- *CEC and Ethernet device control*
- *USB HID signal extension*
- *Compatible with Crestron USB-over-Ethernet Extenders<sup>4</sup>*
- *Low profile surface mount design*
- *Universal power pack included*

The [DM-TX-201-S](#) provides a simple interface for computers and high-definition AV sources as part of a complete Crestron® DigitalMedia® system. Its low-profile, surface-mountable design makes it ideal for installation beneath a conference table, inside a lectern or equipment rack, or on a wall in a boardroom, classroom, auditorium, or residence. It functions as a DM 8G® Fiber transmitter and switcher, providing HDMI®, VGA, and analog audio inputs along with Ethernet and USB HID ports. It connects to the head end or display location using a single multimode fiber strand.<sup>1</sup>

### DigitalMedia 8G™ Fiber

DigitalMedia (DM) 8G provides a one-wire lossless transport for high-definition video, audio, Ethernet, and control signals over a choice of twisted pair or fiber optic cable. DM 8G Fiber uses multimode fiber to enable signal distribution over wire run lengths that exceed the capabilities of copper or between buildings. DM 8G Fiber handles uncompressed Full HD 1080p video signals with support for HDCP, as well as resolutions up to WUXGA. Signals are transported over one strand of multimode fiber, supporting distances up to 1000 ft (300 m) using [CresFiber® 8G](#) cabling, or 500 ft (150 m) using other multimode fiber optic cable.<sup>1</sup>

### Multimedia Computer/AV Interface

The DM-TX-201-S provides switching between two local inputs. The inputs can be configured to switch automatically or based on programming from a Crestron control system. The HDMI input supports resolutions up to 1080p60 and WUXGA. DVI and DisplayPort® Multimode signals are also supported using an appropriate adapter or interface cable.<sup>2</sup> The VGA type RGB input handles analog RGB signals up to WUXGA and analog video up to 1080p60. A 1/8 in. (3.5 mm) stereo input is included to receive an analog line-level audio signal from an unbalanced stereo source or headphone output.

**NOTE:** Audio breakaway capability allows the analog audio input to be used with either video input.

The DM-TX-201-S enables simple signal extension of a computer or other AV signal to a projector or display when paired with a single DM 8G Fiber receiver or room controller. As part of a larger system using a [DM-MD Series](#) DM switcher, multiple DM transmitters and receivers enable the distribution of several sources to feed multiple displays throughout several rooms or a larger facility.

The DM-TX-201-S also features a local HDMI output to feed a local HDMI or DVI monitor, eliminating the need for an outboard distribution amplifier or other signal-splitting hardware.

### LAN Connectivity

The DM-TX-201-S is equipped with a 10/100 Ethernet port, providing a LAN connection to a local network device. This LAN connection can extend from the connected receiver or room controller in a simple point-to-point installation or

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expand the LAN through a larger DM switcher to multiple endpoints.

**USB Signal Extension**

The DM-TX-201-S also functions as a USB HID extender, allowing a connected computer (or other USB HID-compliant host) to be controlled by a mouse and/or keyboard located at a presentation lectern, conference table, or other remote location. Additional USB devices can be supported using Crestron USB-over-Ethernet extenders ([USB-EXT-2](#)).<sup>4</sup>

**Compact, Surface-Mountable Design**

The DM-TX-201-S can be mounted onto a flat surface such as the underside of a table, behind a credenza, or inside a podium. It can also be attached to a single rack rail in the back of an equipment cabinet. An array of indicators is provided for easy setup and troubleshooting.

Refer to the [DigitalMedia Feature Page](#) for additional design tools and reference documents.

**Specifications****Video**

<b>Switcher</b>	2x1 combination digital/analog switch, Crestron QuickSwitch HD® technology
<b>Input Signal Types</b>	HDMI®, DVI <sup>2</sup> , DisplayPort® Multimode <sup>2</sup> , RGB/VGA, component <sup>3</sup> , S-Video <sup>3</sup> , composite <sup>3</sup>
<b>Output Signal Type</b>	DM 8G® Fiber (DigitalMedia® over one multimode fiber optic strand), HDMI, DVI <sup>2</sup>
<b>Supported Formats</b>	DM 8G Fiber, HDMI, DVI, HDCP content protection support, RGBHV, RGBS, RGsB, YPbPr, Y/C, NTSC, PAL
<b>Analog-to-Digital Conversion</b>	10-bit, 165 MHz
<b>Maximum Input Resolutions</b>	Maximum resolutions are listed in the following table.

Input Type	Scan Type	Resolution	Frame Rate
HDMI	Progressive	2048x1152 QWXGA	60 Hz
		2048x1080 DCI 2K	24 Hz
		1920x1200 WUXGA	60 Hz
		1920x1080 HD1080p	60 Hz
	Interlaced	1920x1080 HD1080i	30 Hz

Input Type	Scan Type	Resolution	Frame Rate
VGA/RGB	Progressive	2048x1152 QWXGA	60 Hz
		1920x1200 WUXGA	60 Hz
		1920x1080 FHD 1080p	60 Hz
Component <sup>3</sup>	Progressive	1920x1080 HD1080p	60 Hz
	Interlaced	1920x1080 HD1080i	30 Hz
Composite or S-Video <sup>3</sup>	Interlaced	480i NTSC	60 Hz
		576i PAL	50 Hz

**Audio**

<b>Switcher</b>	2x1 combination digital/analog switch
<b>Input Signal Types</b>	HDMI, DisplayPort Multimode <sup>2</sup> , analog stereo
<b>Output Signal Types</b>	DM 8G Fiber, HDMI
<b>Digital Formats, HDMI</b>	Dolby Digital®, Dolby Digital EX, DTS®, DTS-ES, DTS 96/24, PCM up to 8 channels
<b>Formats, Analog</b>	Stereo 2-channel
<b>Analog-to-Digital Conversion</b>	24-bit, 48 kHz
<b>Analog Performance</b>	Frequency Response: 20 Hz to 20 kHz ±0.75 dB; S/N Ratio: >90 dB, 20 Hz to 20 kHz A-weighted; THD+N: <0.05% @ 1 kHz; Stereo Separation: >90 dB

**Communications**

<b>Ethernet</b>	10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP
<b>USB</b>	Supports signal extension of USB HID class devices, expandable to support USB 1.1 or 2.0 devices using Crestron <a href="#">USB-EXT-2</a> USB-over-Ethernet extenders <sup>4</sup>
<b>DigitalMedia HDMI</b>	DM 8G Fiber, HDCP, EDID, CEC, Ethernet HDCP 1.4, EDID, CEC

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**Connectors**

<b>LAN</b>	(1) 8-wire RJ45 female, shielded; 10Base-T/100Base-TX Ethernet port
<b>DM OUT MMF/SC</b>	(1) SC female optical fiber connector; DM 8G Fiber output; Connects to DM 8G Fiber input of a DM switcher, receiver, room controller, or other DM device via CresFiber 8G fiber optic cable <sup>1</sup>
<b>HDMI OUT</b>	(1) HDMI, Type A connector, female; HDMI digital video/audio output; Also supports DVI <sup>2</sup>
<b>PWR 24VDC 0.75A</b>	(1) 2.1 x 5.5 mm DC power connector; 24VDC power input; <a href="#">PW-2407WU</a> power pack included
<b>Ground</b>	(1) 6-32 screw, chassis ground lug
<b>USB HID</b>	(1) USB Type B female; USB 2.0 device port for connection to the USB host interface of a computer or other USB HID-compliant host
<b>HDMI IN</b>	(1) HDMI Type A connector, female; HDMI digital video/audio input; Also supports DVI and DisplayPort Multimode <sup>2</sup>
<b>RGB IN</b>	(1) DB15HD female; RGB (VGA), component, S-Video, or composite video input <sup>3</sup> ; Formats: RGBHV, RGBS, RGsB, YPbPr, Y/C, NTSC, PAL; Input Levels: 0.5 to 1.5 Vp-p with built-in DC restoration; Input Impedance: 75 Ω; Sync Input Type: Autodetect RGBHV, RGBS, RGsB, YPbPr; Sync Input Level: 3 to 5 Vp-p; Sync Input Impedance: 1 kΩ
<b>AUDIO IN</b>	(1) 3.5mm TRS mini phone jack; Unbalanced stereo line-level audio input; Input Level: 2Vrms maximum; Input Impedance: 10 kΩ

**Controls and Indicators**

<b>LAN</b>	(2) LEDs on RJ-45 connector; Green LED indicates Ethernet link status; Amber LED indicates Ethernet activity
<b>DM OUT</b>	(1) green LED; Indicates DM link status
<b>PWR</b>	(1) green LED; Indicates operating power supplied via local power pack
<b>HDMI IN</b>	(1) green LED; Indicates HDMI input is selected

<b>RGB IN</b>	(1) green LED; Indicates RGB input is selected
<b>SETUP</b>	(1) red LED and (1) recessed push button; Displays Ethernet information in video output
<b>RESET</b>	(1) recessed push button; Resets device to factory default settings

**Power Requirements**

<b>Power Pack</b>	0.75A @ 24VDC; 100-240VAC, 50/60 Hz power pack; Model PW-2407WU included
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**Environmental**

<b>Temperature</b>	32° to 104°F (0° to 40°C)
<b>Humidity</b>	10% to 90% RH (noncondensing)
<b>Heat Dissipation</b>	61 BTU/hr

**Construction**

<b>Chassis</b>	Metal, black finish, with (2) integral mounting flanges, vented sides
<b>Mounting</b>	Freestanding, surface mount, or attach to a single rack rail

**Dimensions**

<b>Height</b>	6.47 in. (165 mm)
<b>Width</b>	7.36 in. (187 mm)
<b>Depth</b>	1.24 in. (32 mm)

**Weight**

24.3 oz (689 g)

**Compliance****Regulatory Model: DM-TX-201-S, DM-TX-201-S2**

FCC Part 15 Class A, IC Class A, CE, UL® Listed for US and Canada

**Model****DM-TX-201-S**  
DigitalMedia 8G® Fiber Transmitter 201**Included Accessories****PW-2407WU**  
Wall Mount Power Pack, 24VDC, 0.75A, 2.1 mm, Universal  
Included Quantity: 1

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## Available Accessories

For a list of available accessories, visit the [DM-TX-201-S](#) product page.

### Notes:

1. The maximum cable length for DigitalMedia 8G Fiber (DM 8G Fiber) is 1000 ft (300 m) using Crestron [CRESFIBER8G](#) multimode fiber optic cable, or 500 ft (150 m) using third-party OM3 simplex multimode fiber optic cable. Refer to the [Crestron DigitalMedia Design Guide](#) for complete system design guidelines. All wire and cables are sold separately.
2. HDMI requires an appropriate adapter or interface cable to accommodate a DVI signal. [CBL-HD-DVI](#) interface cables are available separately.
3. The RGB/VGA input can accept component, composite, and S-Video signals through an appropriate adapter (not included). However, input sync detection is not provided for composite or S-Video signal types through this connection.
4. USB-EXT-2 USB-over-Ethernet extender devices are sold separately. Refer to the [USB-EXT-2](#) spec sheet for more information.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](http://www.crestron.com/How-To-Buy/Find-a-Representative) or contact us for additional information by visiting [www.crestron.com/contact/our-locations](http://www.crestron.com/contact/our-locations) for your local contact.

The original language version of this document is U.S. English.  
All other languages are a translation of the original document.

The product warranty can be found at [www.crestron.com/warranty](http://www.crestron.com/warranty).

The specific patents that cover Crestron products are listed online at [www.crestron.com/legal/patents](http://www.crestron.com/legal/patents).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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## HDMI

Specifications are subject to change without notice.

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