DM-RMC-100-F

DigitalMedia™ Room Controller & DM Fiber Receiver

The DM-RMC-100-F provides a convenient one-box interface solution to support a single display device as part of a complete DigitalMedia system. It functions as a DM receiver and control interface, providing a single HDMI output along with a variety of control ports. Its compact, low-profile design allows the DM-RMC-100-F to be installed discreetly behind a flat panel display or above a ceiling mounted projector.

For any multi-room distribution system, multiple DM-RMC-100-Fs may be installed, all fed from a central DM matrix switcher. For a simple one-room system solution, a single DM-RMC-100-F can be fed straight from a DM Fiber transmitter. In any case, the connection to the switcher or transmitter requires just one **CresFiber** fiber optic cable, affording a cable length up to 1000 feet (300 m)*.

The video and audio connection on the DM-RMC-100-F consists of a single HDMI digital AV output port, supporting HDMI 1.3a with Deep Color, 1080p60 HDTV and WUXGA computer resolutions, HD lossless audio and full HDCP support - all through a single HDMI cable. In addition, there are RS-232 and IR control ports provided for display device control, two relays for screen and lift control, and a SENS input for connection of an optional current sensor or motion sensor.

The USB HID device port allows a mouse/keyboard or game controller to be connected, enabling full control of any USB HID-compliant host device (i.e. computer, game console, media server, etc.) located at the equipment rack or some other remote location. The LAN jack may be used to provide a 10/100 connection for an Ethernet-ready display device.

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An array of indicators on the front of the DM-RMC-100-F provide for easy setup and troubleshooting, verifying the status of connections and signal activity at a glance.

The DM-RMC-100-F mounts to a wall, ceiling, or other flat surface. When mounted, it sticks out only one inch from the surface. All connections are positioned along the bottom and top edges of the receiver, allowing cables to be dressed neatly without obstruction.

* *For DigitalMedia fiber wiring, use* **CresFiber** *or other quality* duplex multimode fiber optic cable. Refer to the Crestron DigitalMedia Design Guide, Doc. #4789 for complete wiring guidelines.
> *DigitalMedia receiver and display controller*

> *DM fiber input supports up to 1000 ft cable length*

> *Low-profile surface mount design*

> *Easy setup and diagnostics*

> *HDMI display output*

> *USB HID keyboard/mouse port*

> *10/100 Ethernet LAN port*

> *RS-232, IR, digital in, & relay control ports*

> *Optional power current sensor*

SPECIFICATIONS

Video

Signal Types: HDMI
Formats: HDMI v.1.3a w/Deep Color, DVI v.1.0, HDCP v.1.2 content protection support
Resolutions, Progressive: 640x480@60Hz, 720x480@60Hz (480p), 720x576@50Hz (576p), 800x600@60Hz, 848x480@60Hz, 852x480@60Hz, 854x480@60Hz, 1024x768@60Hz, 1024x852@60Hz, 1024x1024@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1365x1024@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@24Hz (1080p24), 1920x1080@25Hz (1080p25), 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 1920x1200@60Hz, 2048x1080@24Hz, 2048x1152@60Hz, plus any other resolution allowed by HDMI v.1.3a
Resolutions, Interlaced: 720x480@30Hz (480i), 720x576@25Hz (576i), 1920x1080@25Hz (1080i25), 1920x1080@30Hz (1080i30), plus any other resolution allowed by HDMI v.1.3a

Audio

Signal Types: HDMI v.1.3a supporting HD lossless multi-channel up to 7.1, analog converted stereo pass-thru
Formats: Dolby® TrueHD 7.1, Dolby Digital Plus 7.1, Dolby Digital AC3 5.1, Dolby Digital EX 5.1, DTS-HD Master Audio™ 7.1, DTS-HD High Res 7.1, DTS 5.1, DTS-ES Matrix 5.1, DTS-ES Discrete 6.1, DTS 96/24 5.1, 8ch PCM, 6ch PCM, 2ch PCM

USB

Protocols: Supports USB HID class devices

Connectors - Front

SENS: (1) 2-pin 3.5mm detachable terminal block;
Digital/contact closure sensing input;
Rated for 0-24 Volts DC, referenced to GND;
Input Impedance: 2.2k ohms pulled up to 5 Volts DC;
Logic Threshold: 2.5 Volts DC nominal with 1 Volt hysteresis band
HDMI: (1) 19-pin Type A HDMI female;

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USB: (1) USB Type A female;
USB 1.1 device port for mouse, keyboard, game controller, or other USB HID-compliant device
RELAY 1 - 2: (1) 4-pin 3.5mm detachable terminal block comprising (2) normally open, isolated relays;
Rated 1 Amp, 30 Volts AC/DC;
MOV arc suppression across contacts
COM: (1) 5-pin 3.5mm detachable terminal block, bidirectional RS-232 port;
Up to 115.2k baud, hardware and software handshaking support

IR 1 - 2: (1) 4-pin 3.5mm detachable terminal block comprising (2) IR/Serial ports;
IR output up to 1.1 MHz;
1-way serial TTL/RS-232 (0-5 Volts) up to 19200 baud

LAN: (1) 8-wire RJ45 female w/2 LED indicators;
10BaseT/100BaseTX Ethernet port;
Green LED indicates link status;
Yellow LED indicates Ethernet activity
DM INPUT: (1) DM fiber input composed of (2) SC female optical fiber connectors;
Connects to DM fiber output of a DM switcher, transmitter, or other DM device via **CresFiber** fiber optic cable*
PWR: (1) 2-pin 3.5mm detachable terminal block,24 Volt DC power input;
Connects to local power supply (**PW-2407RU** included), or to DMNet port (24 & G only) of DM Switcher
Ground: (1) 6-32 screw, chassis ground lug

Controls & Indicators

PWR: (1) green LED, indicates operating power supplied via DMNet or local power supply
DM LINK: (1) green LED, indicates connection to an upstream DM device
VIDEO: (1) red/green dual-color LED, indicates video signal presence and lock status
CNTRL: (1) red/green dual-color LED, indicates Ethernet connection and control system communication status
SETUP: (1) red LED and (1) miniature recessed pushbutton, for Ethernet auto-discovery
RESET: (1) miniature recessed pushbutton, for hardware reset

Power Requirements

DMNet Power Usage: 6 Watts (0.25 Amps) @ 24 Volts DC
Power may be drawn from DMNet or local power supply (**PW-2407RU** included).

Environmental

Temperature: 41° to 104°F (5° to 40°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 21 BTU/Hr

Enclosure

Chassis: Steel, black matte powder coat finish
Mounting: Surface mount (mounting bracket included)

Dimensions

Height: 5.66 in (14.38 cm)
Width: 5.15 in (13.08 cm)
Depth: 1.14 in (2.89 cm)

Weight

17.6 oz (499 g)

INCLUDED ACCESSORIES

PW-2407RU: 24 Volt DC Power Supply

AVAILABLE ACCESSORIES

CNSP-XX: Custom Serial Interface Cable

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