QM-TX2-MC

QuickMedia® Transmitter Media Center

Crestron® MediaManager is a comprehensive family of affordable products fusing high-performance AV signal distribution, device control, and facility-wide system management. MediaManager simplifies the art of ProAV system design and installation with complete hardware, software, and low-cost wiring solutions. Whether installing a single boardroom or a campus-wide network of AV systems, MediaManager delivers power and value far beyond conventional products and designs.

The QM-TX2-MC affords a portable or rack-mounted multimedia interface solution for QuickMedia-based MediaManager systems. The QM-TX2-MC can be used in a variety of applications to send audio, video, and computer signals to one or more displays and audio amplifiers using the Crestron exclusive single-wire QuickMedia transport.

Versatile Multimedia Interface

Installed in a central equipment rack, the QM-TX2-MC is ideal for converting the output of a conventional AV source or switcher to QuickMedia for transmission to a QM Receiver or Distribution Center using just a single inexpensive **CresCAT®QM** cable. It's also the perfect portable interface, requiring just one RJ45 plus a 4-pin Cresnet connection in any standard wall plate or floor box to provide an extremely simple yet versatile AV or computer input anywhere in the room. Since it's powered by Cresnet, it doesn't even require a connection to AC power.

Individual video and RGB inputs are provided, each with corresponding stereo audio, to accept connections from separate AV and computer sources. The multi-format BNC video input supports composite, S-Video, and component formats including 1080p HDTV. The DB15HD computer input supports RGBHV signals up to WUXGA 1920 x 1200. A buffered monitor pass-thru connector is also provided to feed the RGB input signal to a local monitor.

Professional Balanced Audio

Two balanced stereo line-level audio inputs are provided. Audio breakaway capability allows the audio inputs to be switched independent of the video and RGB inputs, or linked with them.

Built-in 2x1 Switcher

All video/RGB and audio signal switching is performed onboard the QM-TX2-MC. Switching can be controlled programmatically from any remote keypad or touchpanel, or right from the front panel. Built-in signal sensing on each video/RGB input can be utilized to trigger automatic input selection, as well as other system functions such as device power control.

IR Control Port

A single IR output port is included on the QM-TX2-MC to enable programmable control of a local DVD player or other IR-controllable AV device.

QuickMedia® Transport

Using the revolutionary Crestron QuickMedia transport, the selected input signals are transmitted from the QM-TX2-MC to any QuickMedia Receiver or Distribution Center over a single inexpensive CAT5e type

cable[1]. Computer resolutions up to 1920 X 1200 pixels at 60Hz are supported over cable runs up to 450 feet. Audio signals are transmitted digitally with high-performance 24-bit resolution. QuickMedia dramatically simplifies system design and installation, affording a higher level of performance at a lower overall cost.

MediaManager System Integration

Whether using just one QM transmitter or several, complete system operation can be made transparent to the end-user with all signal routing occurring smoothly under the command of the MediaManager control system. Complete MediaManager systems are easy to design, program and adjust from start to finish using Crestron **SystemBuilder?** software.

> *Portable or rack-mount QuickMedia interface*
> *Single-cable signal transmission up to 450 feet*
> *Multi-format BNC video input*
> *DB15HD RBG computer input*
> *Buffered RGB monitor pass-thru*
> *2 balanced stereo audio inputs*
> *Video input signal sensing*
> *2x1 input switching with audio breakaway*
> *Front panel switching controls*
> *IR output control port*
> *QuickMedia transport | Cresnet communications*
> *Low-cost, quick and easy installation*
> *Easy setup using Crestron SystemBuilder software*
> *1/2-space rack-mountable using optional ST-RMK kit*

CRESTRON

SPECIFICATIONS

Video
Signal Types: RGB and composite, S-Video, or component video
Video/HDTV Formats: NTSC or PAL, HDTV up to 1080i/1080p
RGB Formats: RGBHV, RGBS, or RGsB
Gain: 0dB (75 ohms terminated)
Maximum Resolution: 1920 x 1200 @ 60Hz (at unity gain) with maximum cable length of 450 feet and maximum compensation at receiver

Audio
A-D Conversion : 24-bit, 48 kHz
Frequency Response : 20Hz to 20kHz

Connectors
INPUT 1 - COMPUTER: (1) DB15HD female, RGB(VGA) input;
Formats: RGBHV, RGBS, RGsB;
Input Impedance: 75 ohms;
H & V Sync Impedance: 1k ohms;
Maximum Input Level: 1 Vp-p;
Maximum Sync Level: 5 Vp-p;
Signal sensing on H-SYNC only
MONITOR: (1) DB15HD female, buffered RGBHV pass-thru from INPUT 1
INPUT 2 - COMP/PB, Y/Y, C/PR: (3) BNC female video inputs, configurable as:

- (1) Component/HDTV (YPBPR) video input, or;
- (1) S-Video (Y/C) input, or;
- (1) Composite input;

Input Impedance: 75 ohms nominal;
Input Level: 1 Vp-p nominal;
Sensing of video signal presence and type
AUD IN 1 - 2: (2) 5-pin 3.5mm detachable terminal blocks;
Balanced/unbalanced stereo line-level inputs;
Input Impedance: 24k ohms balanced/unbalanced;
Balanced Input Level: -20 to +12 dBV; 4 Vrms maximum;
Unbalanced Input Level: -20 to +6 dBV; 2 Vrms maximum
G: (1) 6-32 screw, chassis ground lug
IR: (1) 2-pin 3.5mm detachable terminal block, IR output port;
IR output up to 1.2 MHz (**IRP2** IR Emitter sold separately)
NET: (2) 4-pin 3.5mm detachable terminal blocks;
Cresnet slave ports, paralleled;
Connect to Cresnet control network via **CresCAT-QM** or **Cresnet** cable
QM OUT : (1) 8-wire RJ45 female, QuickMedia output port;
Connects to QM input port of any QuickMedia device via **CresCAT-QM** or **CresCAT-IM** cable[1]

Buttons & LED Indicators
PWR: (1) green LED, indicates 24 Volts DC power supplied from Cresnet control network
NET: (1) yellow LED, indicates communication with Cresnet system
SOURCE, INPUT 1: (1) red LED and pushbutton, selects INPUT 1 for distribution
SOURCE, INPUT 2: (1) red LED and pushbutton, selects INPUT 2 for distribution
VIDEO ACTIVITY: (4) red LEDs, indicate presence of RGBHV, VIDEO, S-VIDEO, and YPbPr input signals
SETUP (rear) : (1) miniature pushbutton and red LED, used for touch-settable ID (TSID)

Power Requirements
Cresnet Power Usage: 6 Watts (0.25 Amp @ 24 Volts DC)

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

Enclosure
Chassis: Steel, black matte powder coat finish
Faceplate: Extruded aluminum, black matte powder coat finish with polycarbonate label overlay
Mounting: Freestanding or 0.5U 19-inch rack-mountable (adhesive feet included, **ST-RMK** rack kit sold separately)

Dimensions
Height: 1.80 in (4.58 cm);
1.70 in (4.32 cm) without feet
Width: 7.07 in (17.96 cm)
Depth: 7.14 in (18.12 cm)

Weight
2.23 lb (1.01 kg)

Available Models
QM-TX2-MC [6502458]: QuickMedia® Transmitter Media Center [Limited Supply]

Available Accessories
CRESCAT-QM-NP-SP500 [6500606]: QuickMedia® Cable, Low-skew CAT5e & Cresnet, non-plenum, 500 ft spool [Limited Supply]
CRESCAT-QM-P-SP500 [6500439]: QuickMedia® Cable, Low-skew CAT5e & Cresnet, plenum, 500 ft spool [Limited Supply]
IRP2 [6500126]: IR Emitter Probe
ST-RMK [6500073]: Rack Mount Kit
CBL-VGA-1.5 [6503489]: Crestron® Certified Computer VGA Interface Cable, 1.5 ft
CBL-VGA-12 [6503492]: Crestron® Certified Computer VGA Interface Cable, 12 ft
CBL-VGA-25 [6503493]: Crestron® Certified Computer VGA Interface Cable, 25 ft
CBL-VGA-3 [6503490]: Crestron® Certified Computer VGA Interface Cable, 3 ft
CBL-VGA-6 [6503491]: Crestron® Certified Computer VGA Interface Cable, 6 ft

Notes:
1. For QuickMedia wiring use **CresCAT-QM**, **CresCAT-IM**, or quality CAT5e/CAT6 cable with a delay skew of =15ns per 100m; the maximum aggregate cable length and delay skew between any QM transmitter (origination point) and QM receiver (endpoint) is 450 ft (137 m) and 22 ns; a maximum of two QM midpoint devices may be inserted in a given QM signal path; exceptions apply, refer to each respective product manual for full detail.

CRESTRON®