QM-TX2-CC

QuickMedia® Transmitter Computer 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-CC affords a portable or rack-mounted computer interface solution for QuickMedia-based MediaManager systems. The QM-TX2-CC can be used in a variety of applications to send computer signals to one or more displays using the Crestron exclusive single-wire QuickMedia transport.

Dual Computer Interface

The QM-TX2-CC is ideal for installation in a presentation podium, computer station, or central equipment rack to transmit computer signals to a QM Receiver or Distribution Center using just a single inexpensive CresCAT®QM cable. It's also perfect for portable use, 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 computer input anywhere in the room. Since it's powered by Cresnet, it doesn't even require a connection to AC power.

Two independent DB15HD computer inputs are provided on the QM-TX2-CC, each with corresponding stereo audio, to accept connections from two separate computer sources. Both inputs support RGBHV signals up to WUXGA 1920 x 1200. Buffered monitor pass-thru connectors are also included to feed the input signals to local monitors.

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 RGB inputs, or linked with them.

Built-in 2x1 Switcher

All RGB and audio signal switching is performed onboard the QM-TX2-CC. Switching can be controlled programmatically from any remote keypad or touchpanel, or right from the front panel. Built-in signal sensing on each 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-CC to enable programmable control of a multimedia computer or other IR-controllable device.

QuickMedia® Transport

Using the revolutionary QuickMedia transport, the selected input signals are transmitted from the QM-TX2-CC to any QuickMedia Receiver or Distribution Center over a single inexpensive CAT5e type cable*. 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
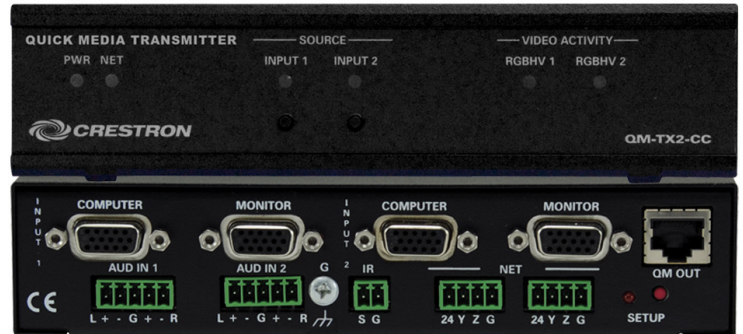
higher level of performance at a lower overall cost.

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
> Dual DB15HD RBG computer inputs
> Buffered RGB monitor pass-thrus
> 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

SPECIFICATIONS

Video

Signal Types: RGB
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 - 2, COMPUTER: (2) DB15HD female, RGB(VGA) inputs;
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
INPUT 1 - 2, MONITOR: (2) DB15HD female, buffered RGBHV pass-thrus
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
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*

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

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: (2) red LEDs, indicate presence of RGBHV input signals
SETUP (rear) : (1) miniature pushbutton and red LED, used for touch-settable ID (TSID)

Power Requirements

Cresnet Power Usage: 5 Watts (0.21 Amp @ 24 Volts DC)

Environmental

Temperature: 41° to 104°F (5° to 40°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 18 BTU/Hr

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

Weight

2.14 lb (0.97 kg)
* 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.

Available Models

QM-TX2-CC [6502479]: QuickMedia® Transmitter Computer 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

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