QM-MD4X4

4x4 QuickMedia® Matrix Switcher

The QM-MD4X4 is a 4 x 4 QuickMedia matrix switcher designed to provide versatile routing of up to 4 inputs from QuickMedia Wall Plates and FlipTop Boxes to any of 4 QuickMedia Receivers. All signal routing is provided over inexpensive CAT5e type cable* via Crestron's exclusive QuickMedia transport, supporting the distribution of high-resolution RGB, video, stereo audio and microphone signals up to a total of 450 feet end-to-end. Audio breakaway capability allows audio signals to be routed independent of video signals.

Up to two QuickMedia Matrix Switchers, Distribution Centers, and Distribution Amplifiers may be cascaded in a given QuickMedia signal path* to support larger system configurations. For instance, a QM-MD4X4 may be used to expand the input capacity of a **QM-MD7X2**, or multiple QM Matrixes can be combined to support applications such as room-combining with numerous inputs and outputs.

Regardless of the configuration, 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. Control and monitoring of the QM-MD4X4 is also possible independent of the control system using its front panel pushbuttons and LEDs. Customizable label strips are provided to easily designate inputs and outputs by name using Crestron Engraver software or standard 3/8" tape labels. For security, the front panel controls can be locked out.

Every QuickMedia port on the rear panel is accompanied by a Cresnet port with 24VDC power distribution built in to simplify termination of the QuickMedia and Cresnet wiring.

> *Simple, versatile QuickMedia signal routing*
> *Easy single-cable connections*
> *Audio breakaway capability*
> *Front panel controls*
> *Single-space rack-mountable*

SPECIFICATIONS

Video
Switcher: 4x4 crosspoint matrix; routes any of (4) QM video input signals to any of (4) QM outputs
Gain: 0dB
Crosstalk: -60dB

Audio
Switcher: 4x4 crosspoint matrix; routes any of (4) QM audio input signals to any of (4) QM outputs
Gain: 0dB

Connectors
QM IN 1 - 4 : (4) 8-wire RJ45 female and (4) 4-pin 3.5mm detachable terminal blocks comprising (4) QuickMedia input ports with Cresnet; Connect to Cresnet and QM output ports of other QuickMedia devices via **CresCAT-QM** cable*

QM OUT 1 - 4 : (4) 8-wire RJ45 female and (4) 4-pin 3.5mm detachable terminal blocks comprising (4) QuickMedia output ports with Cresnet; Connect to Cresnet and QM input ports of other QuickMedia devices via **CresCAT-QM** cable*

24/G: (2) 2-pin 5mm detachable terminal blocks providing (1) power connector per every (4) Cresnet ports;
Receive 24 Volts DC from external Cresnet power supplies;
Maximum Load: 75 watts each

NET: (1) 4-pin 5mm detachable terminal block;
Cresnet slave port; connects to Cresnet control network

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

Buttons & Indicators
PWR: (1) green LED, indicates 24 Volts DC power supplied from Cresnet control network
NET: (1) yellow LED, indicates communication with Cresnet system
AUDIO BREAK: (1) recessed pushbutton & red LED, enables audio breakaway in local mode, indicates audio breakaway in system mode
A: (1) pushbutton & red LED, selects audio routing in local mode when audio breakaway is enabled, selects audio routing view in system mode
V: (1) pushbutton & red LED, selects video routing in local mode when audio breakaway is enabled, selects video routing view in system mode
SYS: (1) pushbutton & red LED, activates Cresnet system control mode
LOCAL: (1) recessed pushbutton & red LED, activates local front panel control mode
ENTER: (1) pushbutton & red LED, implements routing set by IN and OUT buttons in local mode
IN 1 - 4 : (4) pushbuttons & red LEDs, select inputs to be routed in local mode, select routing view for a given input in system mode
OUT 1 - 4 : (4) pushbuttons & red LEDs, select output destination(s) in local mode, select routing view for a given output in system mode

SETUP (rear): (1) miniature pushbutton & red LED, used for touch-settable ID (TSID)

Power Requirements

Cresnet Power Usage : 15 Watts (0.63 Amps @ 24 Volts DC)

Environmental

Temperature: 41° to 104°F (5° to 40°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation : 50 BTU per hour

Enclosure

Chassis: Steel, black matte powder coat finish, vented top and sides
Faceplate: Extruded aluminum, black matte powder coat finish with polycarbonate label overlay
Mounting: Freestanding or 1U 19-inch rack-mountable (adhesive feet and rack ears included)

Dimensions

Height: 1.70 in (4.32 cm)
Width: 17.03 in (43.24 cm);
19.0 in (48.26 cm) with ears

Depth: 10.16 in (25.80 cm)

Weight

4.7 lb (2.1 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-MD4X4 [6501519]: 4x4 QuickMedia Matrix Switcher [Discontinued]

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CRESTRON

10.16 in
(25.8 cm)

1.7 in
(4.32 cm)

17.07 in
(43.35 cm)