

QM-MD4X2 4X2 QuickMedia™ Matrix Switcher



The QM-MD4X2 is a 4X2 QuickMedia matrix switcher designed to provide versatile routing of up to 4 inputs from QuickMedia Wall Plates and FlipTop Boxes to either of 2 QuickMedia Receivers. All signal routing is provided over inexpensive CAT5e or CAT6 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 300 feet end-to-end. Audio breakaway capability allows audio signals to be routed independent of video signals.

Up to two QuickMedia Distribution Centers may be cascaded in a given QuickMedia signal path* to support larger system configurations. For instance, a QM-MD4X2 may be used to expand the input capacity of either QM-MD7X2 QM Input (or both), or multiple QM Matrixes can be used in a variety of combinations to support room-combining applications.

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-MD4X2 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. 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.

SPECIFICATIONS

Connectors

QM IN 1 - 4: (4) 8-wire RJ45 female and (4) 4-pin 3.5mm detachable terminal blocks
 (4) QuickMedia input ports with Cresnet ports
 Connect via CAT5e/6* to QM output ports of other QuickMedia devices

QM OUT 1 - 2: (2) 8-wire RJ45 female and (2) 4-pin 3.5mm detachable terminal blocks
 (2) QuickMedia output ports with Cresnet ports
 Connect via CAT5e/6* to QM input ports of other QuickMedia devices

24/G: (2) 2-pin 5mm detachable terminal blocks
 (1) Power connector for QM IN 1-4, and (1) power connector for QM OUT 1-2
 Receives 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

LED Indicators

PWR: Indicates 24 Volts DC power supplied from Cresnet control network

NET: Indicates communication with Cresnet system

Buttons with LEDs

AUDIO BREAK: (Local mode) enables audio breakaway; (system mode) LED indicates audio breakaway is enabled

A: (Local mode) selects audio routing when audio breakaway is enabled; (system mode) selects audio routing view

V: (Local mode) selects video routing when audio breakaway is enabled; (system mode) selects video routing view

SYS: Activates system mode (routing controlled via Cresnet)

LOCAL: Activates local mode (routing controlled via front panel)

ENTER: (Local mode) implements routing set by IN and OUT buttons

IN 1 - 4: (Local mode) selects input to be routed; (system mode) selects routing view for a given input

OUT 1 - 2: (Local mode) selects output destination(s); (system mode) selects routing view for a given output

SETUP: (rear) Used for touch-settable ID (TSID)

4X2 Video/RGB Matrix

Routes any of (4) QM inputs to either of (2) QM outputs

Gain: 0dB

Crosstalk: -60dB

4X2 Audio Matrix

Routes any of (4) QM inputs to either of (2) QM outputs with selectable audio-follow-video or audio breakaway

Gain: 0dB

Power Requirements

Cresnet Power Usage: 11 Watts (0.46 Amps @ 24 Volts DC)

Environmental

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

Humidity: 10% to 90% RH (non-condensing)

Enclosure

Black metal, 1U 19" rack mountable (rack ears included)

Dimensions

Height: 1.7 in (4.32 cm)

Width: 19.0 in (48.26 cm) with ears; 17.03 in (43.24 cm) without ears

Depth: 6.64 in (16.35 cm)

Weight

3.0 lbs (1.4 kg)

* CAT5e/CAT6 cable must have a delay skew of less than 15nS per 100m for use with the QuickMedia transport; purchase CresCAT-QM for the most cost-effective cabling solution; maximum aggregate cable length is 300 feet from QM transmitter to QM receiver; a maximum of two QM distribution centers may be inserted inline.