

# QM-MDM3X1

## 3x1 QuickMedia® Mini-Switcher

The QM-MDM3X1 is a compact 3x1 QuickMedia switcher designed to expand the input capacity of a single **QM-RMCRX-BA** Receiver or any device with a QM Input port. It attaches directly to the top of a QM-RMCRX-BA, providing inputs for up to three QuickMedia Wall Plates, FlipTop Boxes, and other QM Transmitters. It can also be installed beneath a table\* or in a closet\* to provide localized switching of any three QM sources.

The QM-MDM3X1 behaves as a midpoint QM device just like any other QM switcher. 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. Up to two QM-MDM3X1's or other QuickMedia Switchers, Distribution Centers, and Distribution Amplifiers may be cascaded in a given QuickMedia signal path† to support larger system configurations.

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. Audio breakaway capability allows audio signals to be selected independent of video signals.

Four (4) built-in Cresnet ports provide for distribution of Cresnet control signals and power. The QM-MDM3X1 can furnish up to 41 Watts Cresnet power when powered by a dedicated **PW-2420RU** power supply, or 16 Watts if powered by a **PW-2410RU**. The QM-MDM3X1 may also be powered directly from any 2-Series control system or Cresnet power supply via the Cresnet network.

- > *Compact 3X1 QuickMedia switcher*
- > *Provides easy input expansion for any QM Receiver*
- > *Mounts directly to pole-mounted QM-RMCRX-BA*
- > *Low-profile design allows installation under furniture or in a closet\**

- > *Built-in Cresnet power distribution*
- > *Audio breakaway capability*

## SPECIFICATIONS

### Video

**Switcher:** 3x1 selector switch; routes any of (3) QM video input signals to (1) QM output

**Gain:** 0dB

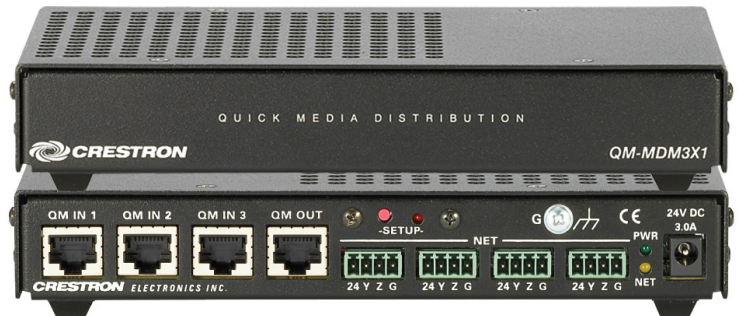
### Audio

**Switcher:** 3x1 selector switch; routes any of (3) QM audio input signals to (1) QM output

**Gain:** 0dB

### Connectors

**QM IN 1 - 3:** (3) 8-wire RJ45 female, QuickMedia input ports; Connect to QM output ports of up to (3) QM Transmitters or other QuickMedia devices via **CresCAT-QM** cable†



**QM OUT:** (1) 8-wire RJ45 female QuickMedia output port;  
Connects to QM input port of **QM-RMCRX-BA** or other QuickMedia device via **CresCAT-QM** cable†

**NET:** (4) 4-pin 3.5mm detachable terminal blocks, Cresnet slave/distribution ports, paralleled;  
Connect to Cresnet control network via **Cresnet** or **CresCAT-QM** cable;  
Normally provide Cresnet distribution between **QM-RMCRX-BA** master port and (3) QM transmitters

**24V DC 2.0A:** (1) 2.1mm barrel DC power jack;  
24 Volt DC power input (power supply sold separately);  
Passes through to NET ports to power additional Cresnet devices

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

### Buttons & Indicators

**PWR:** (1) green LED, indicates 24 Volts DC power supplied from external power supply or Cresnet control network

**NET:** (1) yellow LED, indicates communication with Cresnet system

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

### Power Requirements

**Power Consumption:** 9 Watts (0.375 Amps) @ 24 Volts DC

**Recommended Power Supply:** **PW-2410RU** or **PW-2420RU** (sold separately)

**Available Cresnet Power:** 16 Watts using PW-2410RU, or 41 Watts using PW-2420RU

**Cresnet Power Usage:** 9 Watts (0.375 Amps @ 24 Volts DC) with no power supply connected to the 24V DC connector

### Environmental

**Temperature:** 32° to 104°F (0° to 40°C)

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

**Heat Dissipation:** 50 BTU/hour

# QM-MDM3X13x1 QuickMedia® Mini-Switcher

## Enclosure

**Chassis:** Steel, black matte powder coat finish, convection-cooled, vented top and sides with allowance for proper ventilation of attached **QM-RMCRX-BA**

**Mounting:** Free-standing, under table/surface-mount\*, or attachment to top of **QM-RMCRX-BA** (adhesive feet, [4] "L" brackets, and [4] strap brackets included)

## Dimensions

**Height:** 1.17 in (2.96 cm)

**Width:** 7.69 in (19.52 cm)

**Depth:** 5.24 in (13.30 cm)

## Weight

1.74 lb (0.79 kg)

\* *Must be oriented with the top or side ventilation holes facing upward, and all holes unrestricted to permit proper ventilation and heat dissipation.*

† *For QuickMedia wiring use CresCAT-QM, CresCAT-IM, or quality CAT5e/CAT6 cable with a delay skew of  $\leq 15$  nS 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-MDM3X1 [6501979]:** 3x1 QuickMedia Mini-Switcher [Limited Supply]

## Available Accessories

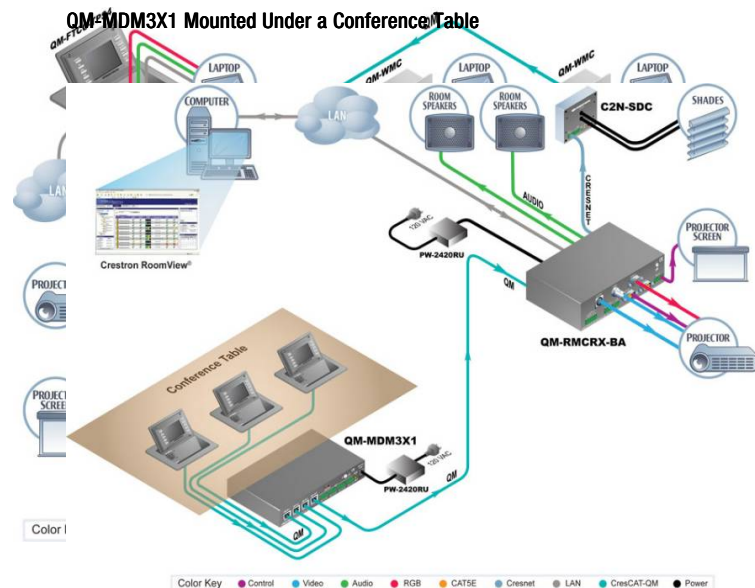
**PW-2410RU:** Power Pack, Desktop, 24VDC, 1A (25 Watts), Regulated, US/International [Discontinued]

**PW-2420RU [6500187]:** Desktop Power Pack, 24VDC, 2A (50 Watts), 2.1mm, Universal

**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]

## QM-MDM3X1 Mounted with QM-RMCRX-BA Room Media Controller



# QM-MDM3X13x1 QuickMedia® Mini-Switcher

