



QM-AE

QuickMedia™ Audio Extractor

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Product Description

The QM-AE provides a solution for extracting stereo program and speech audio signals from the QuickMedia transport to feed a power amplifier or other audio device. It may be inserted anywhere along the QM signal path without effecting the audio, video, and computer signals passing through it.

Three outputs are provided to supply discrete stereo program and mono speech signals, perfect for feeding Crestron's [QM-AMP3X80MM](#) and [QM-AMP3X80SR](#) 3-channel amplifiers. Each output includes versatile input mixing and professional 12-band graphic or parametric EQ, plus 40mS delay adjustment on the Speech output. The QM-AE is 1/2-space rack-mountable using the optional [ST-RMK](#) kit.

Product Resources



[Zoomable Drawing \(Large\)](#) | [Zoomable Drawing \(Small\)](#)



[Manual](#) (PDF - 2.0 M)
Doc. No. 6331
Rev. Date: 7/1/2005



[Cad Files](#) (ZIP - 414 K)
Rev. Date: 8/8/2005 6:12:00 PM

Technical Specifications

Audio

Features	4X3 Audio Matrix Mixer, 3-Channel Signal Processor, Auto Compensation with Self-Peaking
D-A Conversion	Burr Brown 24-bit, 48 kHz
Output Volume Range	-80dB to +20dB, 0.1dB steps plus mute
Input Volume Range	-80dB to 0dB, 0.1dB steps
Input Compensation	±10dB
Microphone Input EQ	4-band GEQ per input, ±12dB, 0.1 dB steps from DMT; ±10dB, 0.1 dB steps from SIMPL
Speech Output Delay	0 to 40 mS
Bass/Treble Gain Range	±15dB, 0.5dB steps from SIMPL

Output Equalization Modes	10-band graphic plus 2-band parametric; Selectable 5-band graphic plus 7-band parametric; speech optimized 5-band graphic plus 7-band parametric; 3-band graphic plus 9-band parametric; or 12-band parametric
PEQ Filter Gain	±12dB, 0.01 dB steps from DMT
PEQ Filter Bandwidth	.02 to 2.0 octaves (1.0 to 3.0 for shelving) from DMT
PEQ Filter Center Frequency	25Hz to 19.9kHz from DMT
PEQ Filter Types	low pass, high pass, EQ filter (peaking/notching), bass shelf, and treble shelf
GEQ Filter Gain	±12dB, 0.1dB steps from DMT; ±10dB, 0.1dB steps from SIMPL
Frequency Response	20Hz to 20kHz ±0.5dB
S/N Ratio	94dB (line), 90dB (speaker) 20Hz to 20kHz A-weighted
THD+N	0.05% (line), 0.7% (speaker) 20Hz to 20kHz

Video/RGB

Provides unbuffered, unprocessed pass-thru of video/RGB portion of QM signal; does not effect delay skew, bandwidth, or gain

Connectors

LINE OUT SPCH	(1) 3-pin 3.5mm detachable terminal block; Speech-channel balanced line-level audio output; Maximum output: 4Vrms balanced, 2Vrms unbalanced; Output impedance: 200 ohms balanced, 100 ohms unbalanced
LINE OUT L - R	(2) 5-pin 3.5mm detachable terminal blocks; Stereo program-channel balanced line-level audio output; Maximum output: 4Vrms balanced, 2Vrms unbalanced (per channel); Output impedance: 200 ohms balanced, 100 ohms unbalanced
QM IN	(1) 8-wire RJ45 female, QuickMedia input port; Connects to QM output port of another QuickMedia device via CresCAT-QM or CAT5e/6*
QM OUT	(1) 8-wire RJ45 female, QuickMedia output port; Connects to QM input port of another QuickMedia device via CresCAT-QM or CAT5e/6*
NET	(2) 4-pin 3.5mm detachable terminal blocks; Cresnet slave ports, paralleled, connect to Cresnet control network
G	(1) 6-32 screw, chassis ground lug

LED Indicators

PWR	(green) Indicates 24 Volts DC power supplied from Cresnet control network
NET	(yellow) Indicates communication with Cresnet system
SETUP (rear)	(red) Used for touch-settable ID (TSID)

Controls

SETUP	(1) Button for touch-settable ID (TSID)
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Power Requirements

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

Temperature	41° to 104°F (5° to 40°C)
Humidity	10% to 90% RH (non-condensing)

Enclosure

Black metal, 0.5U 19" rack mountable using optional ST-RMK (sold separately)

Dimensions

Height	1.80 in (4.57 cm)
Width	7.07 in (17.96 cm)
Depth	6.33 in (16.08 cm)

Weight

2.0 lbs (0.91 kg)

AVAILABLE ACCESSORIES