

3 Channel Multimedia Amplifier **QM-AMP3X80MM**

The QM-AMP3X80MM is a professional power amplifier designed to provide exceptional audio performance as part of a complete MediaManager AV system or anywhere multi-channel amplification is required. Occupying just one rack space, the QM-AMP3X80MM provides three channels of amplification to complement the discrete stereo program and mono speech output channels of Crestron's QM-MD7X2 QuickMedia Distribution Center and QM-RMCRX QuickMedia Receiver. The first two output channels deliver 80 Watts per channel at 8 ohms or 110 watts at 4 ohms to drive a pair of program loudspeakers. The third channel delivers 80 Watt at 70 Volts to support distributed ceiling loudspeakers for speech reinforcement.

All inputs are balanced with fixed input gain optimized for use with MediaManager components. An efficient Class G power amp topology puts more output power in less space while generating significantly less heat as compared to conventional amplifier designs. With Cresnet communications built-in, the amp's power can be controlled and temperature monitored from any 2-Series or MediaManager control system.

SPECIFICATIONS

Connectors

INPUTS SPCH, L, & R: (3) 3-pin 3.5mm detachable terminal blocks

(3) Balanced line-level audio inputs
Input impedance: 19k ohms (balanced), 9.5k ohms (unbalanced)
Input sensitivity: 1.2Vrms for rated power (80W at 8 ohms)
Common mode rejection: >70dB below 1kHz

OUTPUTS SPCH 70V: (1) 2-pin 5mm detachable terminal block
70 Volt speaker-level audio output

OUTPUTS 4/8Ω L & R: (2) 2-pin 5mm detachable terminal blocks
(2) 4/8 ohm speaker-level audio outputs

NET: (1) 4-pin 3.5mm detachable terminal block
Cresnet slave port
Connects to Cresnet control network

120V ~50-60Hz: (1) IEC Socket
Mates with removable power cord, included

LED Indicators

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

NET (yellow): Indicates communication with Cresnet system

SETUP (red): used for touch-settable ID (TSID)

POWER (green): (front) Indicates main power is enabled

Controls

SETUP: used for touch-settable ID (TSID)

PWR: Selects between BYPASS mode for standalone operation and NET CONTROL mode for control via Cresnet

POWER: (front) Enables/disables main power



Amplifier

Output power:

Channel 1:

80 watts at 70 Volts

Channels 2-3:

80 watts per channel at 8 ohms

110 watts per channel at 4 ohms

Power bandwidth:

75 watts 20Hz to 20kHz at 8 ohms

95 watts 20Hz to 20kHz at 4 ohms

75 watts 100Hz to 20kHz at 70V output

THD (1kHz):

<0.1% at 1 watt into 8 and 4 ohms

<0.1% at 75 watts into 8 ohms

<0.2% at 100 watts into 4 ohms

<0.1% at 70V output

Frequency response:

20Hz to 20kHz +0/-0.5dB at 4/8 ohm outputs

100Hz to 20kHz +0/-3dB at 70V output

S/N ratio: 110dB below rated output power, A-weighted

Damping factor: >150 (4/8 ohm outputs)

Power Requirements

Mains: 120 Volts AC +15%/-25%, 60 Hz, 500 Watts

Cresnet Power Factor: 3 Watts (0.125 Amp @ 24 Volts DC)

Environmental

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

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

Enclosure

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

Dimensions

Height: 1.96 in (4.99 cm) with feet

Width: 19.0 in (48.26 cm) with ears; 17.01 in (43.21 cm) without ears

Depth: 12.53 in (31.82 cm)

Weight

15.2 lbs (6.9 kg)

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QM-AMP3X80MM 3 Channel Multimedia Amplifier (continued)

INTERNATIONAL VERSION (230 VAC)

QMI-AMP3X80MM

All the features and specifications of the QM-AMP3X80MM except:

Amplifier

Output power:

Channels 1:

80 watts at 100 Volts

Channels 2-3:

80 watts per channel at 8 ohms

110 watts per channel at 4 ohms

Power bandwidth:

75 watts 20Hz to 20kHz at 8 ohms

95 watts 20Hz to 20kHz at 4 ohms

75 watts 100Hz to 20kHz at 100V output

THD (1kHz):

<0.1% at 1 watt into 8 and 4 ohms

<0.1% at 75 watts into 8 ohms

<0.2% at 100 watts into 4 ohms

<0.1% at 100V output

Frequency response:

20Hz to 20kHz +0/-0.5dB at 4/8 ohm outputs

100Hz to 20kHz +0/-3dB at 100V output

S/N ratio: 110dB below rated output power, A-weighted

Damping factor: >150 (4/8 ohm outputs)

Power Requirements

Mains: 230 Volts AC +15%/-25%, 50Hz, 500 Watts



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