

# QM-AMP3X80MM

## 3 Channel Multimedia Amplifier

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 featured on numerous Crestron QuickMedia® audio products. The QM-AMP3X80MM's first output channel delivers 80 Watts at 70 Volts to support distributed ceiling loudspeakers for speech reinforcement. The other two channels deliver 80 Watts each at 8 ohms or 110 watts at 4 ohms to drive a pair of program loudspeakers.

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.

> Professional 3-channel Class G power amplifier

> 1X 80 Watt @ 70 Volts

> 2X 80 Watts @ 8 ohms; 110 Watts @ 4 ohms

> Power control and temperature monitoring via Cresnet

> Single-space rack-mountable

### SPECIFICATIONS

#### Audio - Channel 1

**Output Power:** 80 watts at 70 Volts

**Power Bandwidth:** 75 watts, 100Hz to 20kHz

**THD:** <0.1%, 1kHz

**Frequency Response:** 100Hz to 20kHz +/-3dB

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

#### Audio - Channels 2 - 3

**Output Power:** 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

**THD:** <0.1%, 1kHz at 1 watt into 8 and 4 ohms;

<0.1%, 1kHz at 75 watts into 8 ohms;

<0.2%, 1kHz at 100 watts into 4 ohms

**Frequency Response:** 20Hz to 20kHz +/-0.5dB

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

**Damping Factor:** >150 (4/8 ohm outputs)

#### Connectors

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

Balanced line-level audio inputs;

Input Impedance: 19k ohms balanced, 9.5k ohms unbalanced;

Input Sensitivity: 1.2 Vrms 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;



**Output Power:** 80 watts at 70 Volts

**OUTPUTS 4/8&Omega;** (2) 2-pin 5mm detachable terminal blocks; 4/8 ohm speaker-level audio outputs;

**Output Power:** 80 Watts/Ch. @ 8 ohms, 110 Watts/Ch. @ 4 ohms

**NET:** (1) 4-pin 3.5mm detachable terminal block;

Cresnet slave port, connects to Cresnet control network

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

**Fuse:** Main fuse holder; 5 Amps, 250 Volts, time lag

**120V ~50-60Hz:** (1) IEC Socket, main power input;

Mates with removable power cord, included

#### Controls & LED Indicators

**POWER (front):** (1) Toggle switch with (1) green LED, enables/disables main power

**PWR (rear):** (1) Toggle switch, selects between BYPASS mode for standalone operation and NET CONTROL mode for control via Cresnet

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

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

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

#### Power Requirements

**Main Power :** 120 Volts AC +15%/-25%, 50-60 Hz, 500 Watts

**Cresnet Power Usage :** 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

**Chassis:** Steel, black matte powder coat finish, convection cooled, vented top and sides

**Faceplate:** Extruded aluminum, black matte powder coat finish with polycarbonate label overlay

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**Mounting:** Freestanding or 1U 19-inch rack-mountable (adhesive feet and rack ears included)

## Dimensions

**Height:** 1.96 in (4.99 cm);  
1.73 in (4.39 cm) without feet  
**Width:** 17.01 in (43.21 cm);  
19.0 in (48.26 cm) with ears  
**Depth:** 12.53 in (31.82 cm)

## Weight

15.2 lb (6.9 kg)

## INTERNATIONAL VERSION (230 VAC)

### QMI-AMP3X80MM

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

## Audio - Channel 1

**Output Power:** 80 watts at 100 Volts  
**Power Bandwidth:** 75 watts, 100Hz to 20kHz  
**THD:** <0.1%, 1kHz  
**Frequency Response:** 100Hz to 20kHz +0/-3dB  
**S/N Ratio:** 110dB below rated output power, A-weighted

## Connectors (partial)

**OUTPUTS SPCH 100V:** (1) 2-pin 5mm detachable terminal block;  
100 Volt speaker-level audio output;  
Output Power: 80 watts at 100 Volts  
**Fuse:** Main fuse holder; 2.5 Amps, 250 Volts, time lag  
**230V ~50-60Hz:** (1) IEC Socket, main power input;  
Mates with removable power cord, included

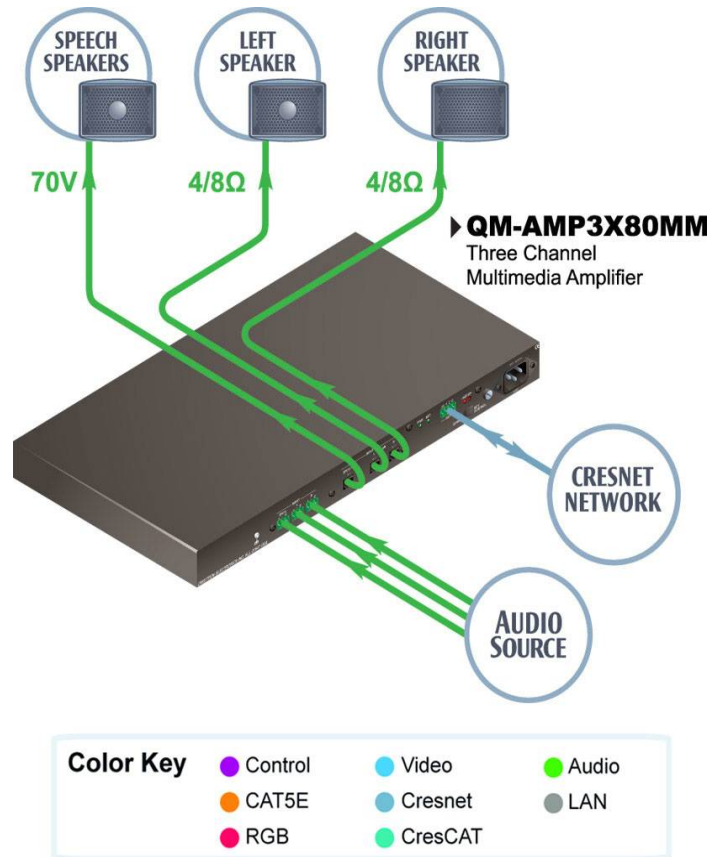
## Power Requirements

**Main Power:** 230 Volts AC +15%/-25%, 50-60Hz, 500 Watts  
**Cresnet Power Usage:** 3 Watts (0.125 Amp @ 24 Volts DC)

## Available Models

**QM-AMP3X80MM:** 3-Channel Multimedia Power Amplifier  
**QMI-AMP3X80MM:** 3-Channel Multimedia Power Amplifier - International Version, 230V

## QM-AMP3x80 Connections

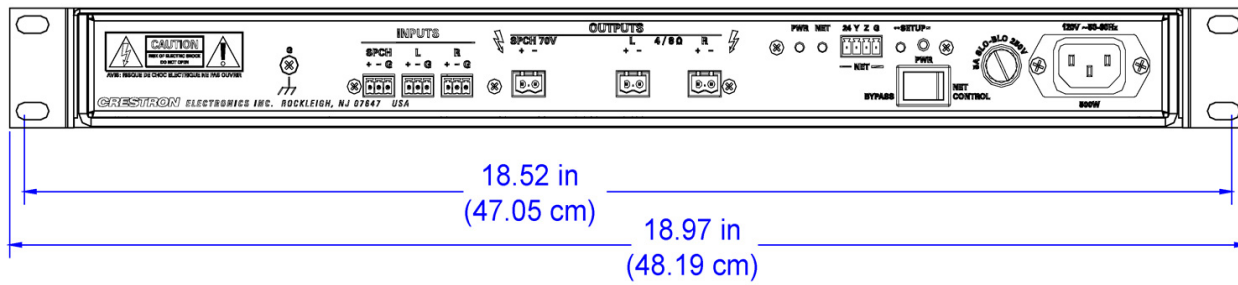


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