



8 channel audio power amplifier.

Scaleable Power at different impedances

Satisfying the most discerning installation / Cinema

amplifier requirements. It represents the

very best in sound quality whatever the load.

The sound quality is maintained over a wide

range of load and temperature conditions.

Sophisticated "side-chain" limiters prevent

distortion and speaker damage, but are

out-of-circuit until the onset of clipping.

Phoenix / Euro style analog inputs

Barrier strip speaker outputs

Rear panels switch settings for:-

Global setting for Hi-Z 70V /100V operation

Each channel is configurable as Hi-Z or Lo-Z

Bridging channel pairs

32/26dB gain

Channel linking

Fan Speed

The control circuitry provides full protection against

short circuits, DC and excessive temperature together

with inrush current limiting .

Green / Energy efficiency requirement are intrinsic

to the design and further satisfied with rear selectable autostandby(2W).

Available with or without dante cards.

Transformerless Hi-Z operation

Flexible GPO reporting of Load, Standby status and OK status.

GPI control of Standby / On state

Main Specifications

Output Power (per channel): 8 ohms: 325W, 4 ohms: 650W, 2.7ohms: 750W, 2 ohms 700W, Hi-Z (100V : 500W) (70V:600W)

Measured using continuous music with Crest Factor of 4.8 (14dB)

Output Power (bridged): 8 ohms: 1300 4 ohms: 1400W

Measured using continuous music with Crest Factor of 4.8 (14dB)

THD: (@1dB below maximum output power) @ 1kHz<0.08%, 20Hz to 20kHz<0.05%

Gain / Sensitivity: Gain 32/26dB Sensitivity (for maximum power)+11/+5dBu (2.75V/1.40V)

Frequency Response: 20Hz to 20kHz (+0dB / -0.5dB)

Power Consumption: Universal Power Supply 110V - 230V :

Manual standby 2W / Autostandby 10W / Idle 120W / 300W - 781W in use

Dimensions: Amplifier (2U) (mm)88(h) x 482(w) x 460(d)

Boxed (shipping size - UK)230 x 580 x 560 (Single boxed)

Boxed (shipping size - all except UK)250 x 610 x 600 (Double boxed)

Weight: Amplifier 12kg boxed (shipping weight) 14kg

i-68

i-68

Additional Specifications

Input Impedance: 20k ohms (Active balanced)

Input CMRR: > 60dB **Damping Factor:** > 400 (8 ohms / 1kHz)

SNR: Better than 102dB (unwtd, 22Hz-22kHz)

Signal Limiters: Operate at maximum power to prevent excessive clipping.

Protection: Output short circuit, DC output, over-temperature, mains in-rush control.

Output Power:

Continuous sine wave @ 1kHz (per channel): 325W (8R), 650W (4R), 750W (2.7R), 700W (2R)

Continuous music (with Crest Factor of 2.8 (9dB)): 350W (8R), 762W (4R), 780W (2R)

Continuous music (with Crest Factor of 4.8 (14dB)): 310W (8R), 600W (4R), 760W (2R)

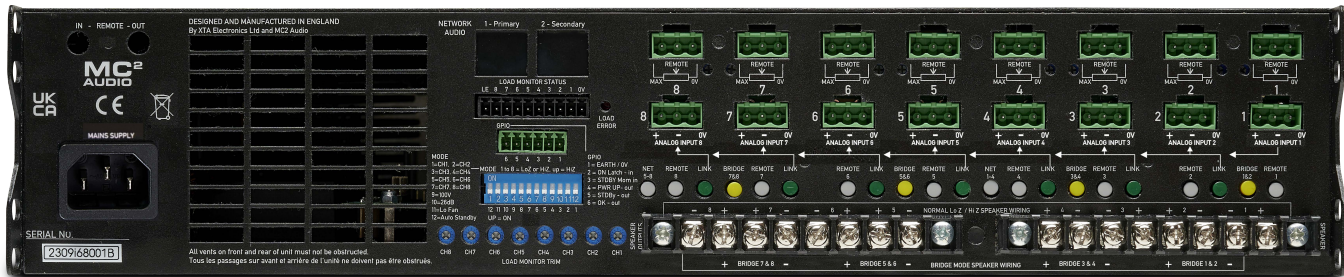
Continuous music (with Crest Factor of 7.8 (18dB)): 284W(8R), 308W (4R), 305W (2R)

For details of Power measurement methods please refer to the Technical Support area of our website.

Power Consumption & Thermal Emissions

| Mains (V) | Load (R) | Current Draw (A) | | | | Thermal Emissions (W) | | | |
|-----------|----------|------------------|-------|---------|-------|-----------------------|-------|---------|-------|
| | | No Sig'l | Light | Average | Heavy | No Sig'l | Light | Average | Heavy |
| 240 | 8 | 0.5 | 0.96 | 1.67 | 4.08 | 115 | 341 | 340 | 300 |
| 240 | 4 | 0.5 | 1.5 | 3.0 | 3.96 | 115 | 650 | 650 | 330 |
| 240 | 2 | 0.5 | 1.5 | 3.0 | 4.08 | 115 | 672 | 672 | 300 |
| 120 | 8 | 1.0 | 1.88 | 3.38 | 8.17 | 115 | 340 | 340 | 300 |
| 120 | 4 | 1.0 | 3.00 | 5.58 | 7.92 | 115 | 650 | 600 | 330 |
| 120 | 2 | 1.0 | 3.00 | 6.25 | 8.17 | 115 | 672 | 675 | 300 |

No Sig'l = Quiescent, Light = Crest Factor of 7.8(18dB), Average = Crest Factor of 4.8(14dB), Heavy = Crest Factor of 2.8(9dB)
For details of measurement methods please refer to the Technical Support area of our website.



Controls, Indicators & Connectors

Front Panel: Indicators for Signal present & Limiter Active for each channel

Rear panel switch status indicators for Global 100V / 70V for channels in Hi Z mode, 32dB / 26dB gain, fan speed, network / analog inputs
Status indicators for Power, Standby, Temp Hi, Protect, Load Error

Rear Panel: Channel Remote enable / Channel link Switch. Bridging for channels 1/2, 3/4, 4/5 and 6/7

Network / Analog input select channel 1-4 and 5-8

Euro / Phoenix connector for remote level control for each channel

Barrier strip speaker output connectors

Optional Dante Card

1 x 10-way mini-Phoenix/Euro connector for channel load status

1 x Preset per channel to set threshold for load valid window

1 x 6-way mini-Phoenix connector (GPI port) - Turning On, On & Standby output, On & Standby input

1 x IEC Main inlet

Architect's and Engineer's Specification

The power amplifier shall be a 8 channel class D design with a minimum guaranteed power of 325W into 8R (20Hz to 20kHz). THD shall be better than 0.05% (20Hz to 20kHz) and the signal to noise. ratio shall exceed 102dB (unwtd). Minimum load shall be 2R and in bridge mode 4R. Input sensitivity shall be +11dBu or +5dBu for full power output depending on rear switch gain setting. Frequency response shall be 20Hz to 20kHz (+0.25dB). A front panel non-isolating main power switch shall be fitted switch between standby and normal operation. The amplifier shall have auto standby low power (10W) and manual / remote standby mode (2W). The power amplifier will have a rear dip switch to enable autostandby mode. The power amplifier will have a rear dip switch to enable Lo Speed fan mode. The front panel shall have indication of power, standby operation, present and limiter active for each channel and global indication of Temperature, protect and load error. The rear panel shall have speaker/70V/100V outputs on barrier strip connector. The audio inputs shall be on Eurostyle / Phoenix compatible connectors. A dip switch will select between HiZ operation at 70V / 100V. Individual dip switches for each channel shall switch between LoZ and HiZ mode. There will be 7 'Link' switches which route audio to consecutive channel, there will 4 'Bridge' switches which enable bridged operation of consecutive channels, each channel shall have a 'Remote' push button. When the 'Remote' button is pressed remote level control will be enabled by a each channel 3 pin remote socket. Load status will be monitored, each channels status will be available on a GPI port. A rear preset will allow the user to set a threshold for window where loads are measured as valid. A GPIO port will provide output indicating power up, standby and on status. The GPIO port will provides inputs to switch the amplifier on and enable standby mode. The amplifier shall be 2U, 19" rackmount in format with dimensions of 8.8cm X 48cm X 43cm and a weight of 12kg. AC mains supply shall be a universal type allowing operational nominally 110V – 230V, 50/60Hz. The amplifier shall be designated the MC2 I-68.