



Delta Series offers the assurance of the highest quality audio power amp technology with future proofing via the inclusion of simple to use digital audio networking.

A rear panel switch allows the amplifier to accept either four channels of analogue audio or pick up four channels of networked audio, via Dante™, which is then converted using 24 bit 96kHz DACs.

Within this 1U chassis, the amplifier also features individual 70/100V line drive*, an auto standby power mode (with wake-up < 200mS), tuneable fans adaptable to different level/performance scenarios, and GPIO for remote control and monitoring. The amplifier also supports the back-up amplifier inputs as on the Delta 40, and has a PFC enabled universal mains supply for worldwide use.

Then, connect to a Delta DSP amplifier using a single CAT5 cable to realise a stereo 4 way system - no external processing required.

Run bridged channel pairs or link adjacent inputs for total flexibility in either analogue or digital mode.

Main Specifications

Output Power (per channel): 8 ohms: 175W, 4 ohms: 350W, 2.7 ohms: 480W. 2 ohms: 340W, 50 ohms: 200W*

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

Output Power (bridged): 8 ohms: 700W, 4 ohms: 660W

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

THD: (@1dB below maximum output power) @ 1kHz<0.01%, 20Hz to 20kHz<0.03%

Gain / Sensitivity: Gain 26dB Sensitivity (for maximum power)+8.3dBu (2.0V)

Frequency Response: 20Hz to 20kHz (±0.3dB)

Power Consumption: Nominal @ 240V into 4 ohms 0.74A, nominal @120V into 4 ohms 1.53A

Dimensions: Amplifier (1U) (mm) 44(h) x 482(w) x 428(d)

Boxed (shipping size - UK) 590 x 580 x 100 (Single boxed)

Boxed (shipping size - all except UK) 610 x 600 x 140 (Double boxed)

Weight: Amplifier 5.1kg (11.2lbs), Boxed (shipping weight) 5.9kg (13.0lbs)

DELTA 20

Additional Specifications

Input Impedance: 10k ohms (Active balanced)

Input CMRR: > 30dB **Damping Factor:** >200 (8 ohms / 1kHz)

Input Sources: 4 x Analogue, 4 x Networked Audio (Switchable in bank of 4)

Signal Limiters: Operate at maximum power to prevent excessive clipping

Protection: Output short circuit, DC; Over-temperature; Mains in-rush control, over voltage, over current.

Output Power(per channel):

Continuous music (with Crest Factor of 2.8 (9dB)): 175W (8R), 330W (4R), 330W (2.7R)

Continuous music (with Crest Factor of 4.8 (14dB)): 175W(8R), 350W(4R), 480W(2.7R)

Continuous music (with Crest Factor of 7.8 (18dB)): 180W(8R), 360W (4R), 540W (2.7R)

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

*These are factory/dealer fit options only *70/100V line output transformer capability.

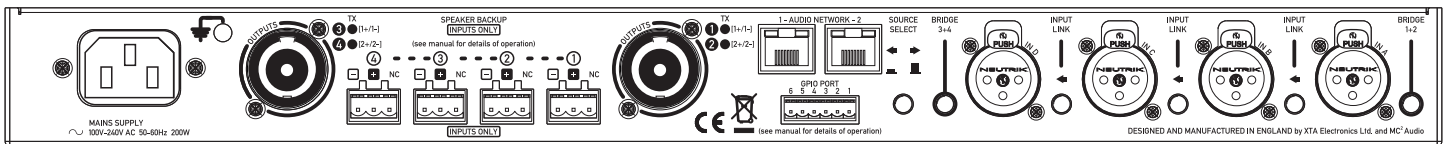
DELTA 20

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	0.12	0.26	0.43	0.81	28	33	34	35
240	4	0.12	0.40	0.74	1.25	28	36	38	50
240	2.7	0.12	0.49	0.78	1.17	28	45	46	61
120	8	0.27	0.56	0.93	1.68	32	38	40	42
120	4	0.27	0.82	1.53	2.55	32	40	43	60
120	2.7	0.27	1.00	1.58	2.38	32	48	50	70

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.

DELTA 20



Controls, Indicators & Connectors

Front Panel: 1 x STBY LED (orange)

- 4 x 6 point LED level indicators, 4 x level controls
- 3 x Channel Audio LINK LEDs (yellow)
- 1 x PROTECTION LED (red), 2 x BRIDGE LEDs (green)
- 1 x POWER LED, 1 x ANALOGUE LED, 1 x NETWORK AUDIO LED (3 x yellow)

Rear Panel:

- 2 x Neutrik Speakon output connectors (4 pole), 4 x Phoenix back-up output connectors
- 4 x Neutrik XLR female connectors (audio input), 1 x 6 Mini-Phoenix GPIO connector
- 2 x Ethernet RJ45 (Audio Network)*
- 3 x Channel Link Switches
- 2 x Bridge Mode Switches
- 1 x Analogue/Network Audio Source Select Switch
- IEC mains inlet

*Dante Audio Network is a factory fit option

DELTA 20

Architect's and Engineer's Specification

The power amplifier shall be a 4 channel class D design with a minimum guaranteed power of 350W into 4R (20Hz to 20kHz). THD shall be better than 0.03% (20Hz to 20kHz). The minimum load shall be 2R, and 4R in bridge mode. Input sensitivity shall be 8.3dBu for full power output. Frequency response shall be 20Hz to 20kHz (±0.5dB). The front panel shall have individual input level controls each with a 6 point LED meter showing output level and onset of limiting. A front panel non-isolating main power switch shall be fitted. The rear panel shall have outputs on Neutrik Speakon connectors, with two being wired to allow channel pairs to be accessed from a single plug (4 pole). The audio inputs shall be on Neutrik 3 pole XLR connectors. Mode switching between stereo/bridge shall be on the rear panel, per channel pair (1&2, 3&4). Inputs to channels shall be linkable via 3 channel link switches, with corresponding indication on the front panel. The amplifier shall accept analogue or networked audio if fitted with the optional Dante network audio card with global source switching across all four channels on the rear panel and front panel indication of either analogue or digital source. The amplifier shall feature an automatic standby mode to enter standby in the absence of signal. All channels may be fitted with 70/100 line output transformers and internally selectable HPF filters. Speaker backup inputs shall be available to connect a fall-over amplifier which will automatically be connected to the speaker loads in the case of amplifier fault or loss of power. The amplifier shall feature a GPIO port for control of standby mode, and indication of power and protection state. The amplifier shall be 1U, 19" rackmount in format with dimensions of 4.4cm X 48cm X 43cm and a weight of 5.1kg. A PFC enabled universal AC mains supply shall accept between 90 - 240VAC, 50-60Hz. The amplifier shall be designated the MC² Delta 20.