# ELECTRONICS

COMPLETING THE CIRCUIT







# MARTIN AUDIO ELECTRONICS COMPLETING THE CIRCUIT







# ikonº

The iKON Series of 4 and 8-channel power amplifiers combine very high power density with superb audio performance, state-of-the-art DSP and network control. A dedicated controller amplifier for Martin Audio Wavefront Precision line arrays and XE Series stage monitors, the iKON series can also provide multi-channel amplification across the Martin Audio loudspeaker range.



#### iK42

#### **Four-Channel Class D Amplifier**



The iK42 can deliver a full 5000 watts per channel into  $2\Omega$  with all channels driven while remaining highly efficient. Its high efficiency reduces the energy drawn from the mains supply and ensures the power reserves needed to deliver superb sound under arduous live conditions.

Ethernet is used for system remote control and monitoring via Martin Audio's VU-NET software application, while a user friendly front panel interface allows full local control of all features. Dante digital audio network inputs are also provided for digital audio distribution and control.

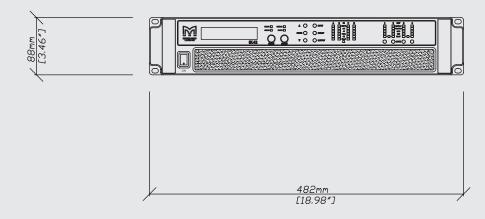
Powerful DSP is fully integrated into the iK42 to provide a multitude of features that ensure maximum performance and worldwide compatibility of XE monitors. It also provides up to 1000 FIR filter taps @ 48kHz on each output channel, which is essential to implement DISPLAY's wide bandwidth optimisation process in WP line array systems.

The iK42 employs comprehensive protection functions to maintain safe operating conditions of both the amplifier and the loudspeakers driven — including a sophisticated loudspeaker limiter suite which incorporates peak, RMS and excursion limiting, as well as multiband limiting for passive 2-way systems.

#### **FEATURES**

- Four channels of efficient Class D amplification
- Very high power density in 2U rack height
- Up to 20,000 Watts total power output, depending on load impedance
- High performance 96kHz DSP on all inputs and outputs (48kHz on outputs when implementing FIR filters)
- Switch mode power supply
- Global mains operation, 85V to 240V auto-sensing
- Intuitive, user-friendly, front panel interface
- Analogue, AES3 and Dante<sup>™</sup> digital audio network inputs
- Ethernet network for system operation, control and monitoring via Martin Audio VU-NET™ software
- Comprehensive protection and monitoring functions

- Dedicated system amplifier for Martin Audio Wavefront Precision Series and XF Monitor Series
- Versatile multi-channel amplification for Martin Audio loudspeaker systems



#### iK81

#### **Eight Channel Class D Amplifier**



The iK81 can deliver a full 1250 watts per channel into 2, 4 or 8 ohms with all channels driven while remaining highly efficient. Its high efficiency reduces the energy drawn from the mains supply and ensures the power reserves needed to deliver superb sound under arduous live conditions.

Ethernet is used for system remote control and monitoring via Martin Audio's VU-NET software application, while a user friendly front panel interface allows full local control of all features. Dante digital audio network inputs are also provided for digital audio distribution and control.

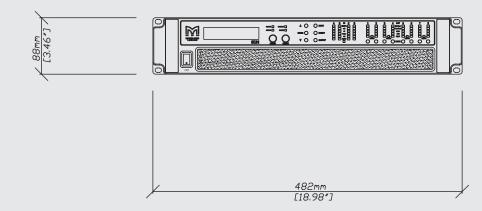
Powerful DSP is fully integrated into the iK81 to provide a multitude of features. It also provides up to 1000 FIR filter taps @ 48kHz on each output channel, which is essential to implement DISPLAY's wide bandwidth optimisation process in the WPM line array.

The iK81 employs comprehensive protection functions to maintain safe operating conditions of both the amplifier and the loudspeakers driven — including a sophisticated loudspeaker limiter suite which incorporates peak, RMS and excursion limiting, as well as multiband limiting for passive 2-way systems.

#### **FEATURES**

- Eight channels of efficient Class D amplification
- Very high power density in 2U rack height
- 10,000 Watts total power output
- High performance 96kHz DSP on all inputs and outputs (48kHz on outputs when implementing FIR filters)
- Switch mode power supply
- Global mains operation, 85V to 240V auto-sensing
- Intuitive, user-friendly, front panel interface
- Analogue, AES3 and Dante<sup>™</sup> digital audio network inputs
- Ethernet network for system control and monitoring via Martin Audio VU-NET™ software application
- Comprehensive protection and monitoring functions

- Dedicated system amplifier for the Wavefront Precision Series
- Versatile multi-channel amplification for Martin Audio loudspeaker systems





VIA is a new range of four high performance, cost effective power amplifiers designed primarily for installation use, but also suited to portable applications.



#### **Two-Channel Class D Amplifier**





The VIA2502 is an advanced 2-channel power amplifier which combines high power density with superb audio performance in a lightweight, cost-effective package. Delivering 2 x 1250 watts into 2 ohms, or 1 x 2500 watts into 4 ohms bridged, it is ideal for powering Blackline X, CDD and V. Series systems in small to medium-scale installations and portable sound applications.

Its high efficiency design reduces the energy drawn from the mains supply and ensures the power reserves needed to deliver superb sound in demanding environments with reliability and ease.

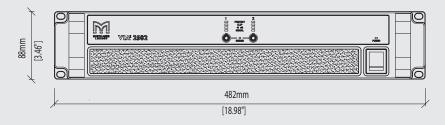
Comprehensive protection functions continuously monitor its performance to maintain safe operating conditions and full output capability in ambient temperatures up to  $40^{\circ}\text{C}$ .

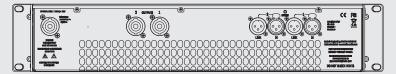
For a wide variety of installations and portable situations, the VIA2502 is ideally partnered with the Martin Audio DX0.5 system processor. Larger installations will benefit from use with the DX4.0 processor with its onboard network capability and proprietary VU-NET software control.

#### **FEATURES**

- Two channels of efficient Class D amplification
- 2500 Watts total power output
- 2U rack height
- Exceptionally lightweight
- Switch mode power supply
- Variable speed cooling fans with front-to-back airflow
- Global mains operation, 100-240V auto-sensing
- Comprehensive protection systems
- Signal and clip limiter LEDs

- Small to medium-scale installations
- Portable sound and stage monitoring
- Hotels, restaurants and bars
- Houses of Worship and auditoriums
- Educational facilities
- Live music and dance clubs
- Mobile DJ's





#### **Two-Channel Class D Amplifier**





The VIA5002 is an advanced 2-channel power amplifier which combines high power density with superb audio performance in a lightweight, cost-effective package. Delivering 2 x 2500 watts into 4 ohms or 2 x 1500 watts into 8 ohms, it ideal for powering subwoofers in installations and portable sound systems.

Its high efficiency design reduces the energy drawn from the mains supply and ensures the power reserves needed to deliver superb sound in demanding environments with reliability and ease.

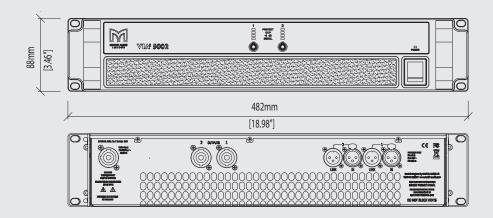
Comprehensive protection functions continuously monitor its performance to maintain safe operating conditions and full output capability in ambient temperatures up to  $40^{\circ}\text{C}$ .

For a wide variety of applications, the VIA5002 is ideally partnered with the Martin Audio DX0.5 system processor. Larger installations will benefit from use with the DX4.0 with its onboard network capability and proprietary VU-NET software control.

#### **FEATURES**

- Two channels of efficient Class D amplification
- 5000 Watts total power output
- 2U rack height
- Exceptionally lightweight
- Switch mode power supply
- Variable speed cooling fans with front-to-back airflow
- Global mains operation, 100-240V auto-sensing
- Comprehensive protection systems
- Signal and clip limiter LEDs

- Subwoofer amplification
- Installations, portable sound and stage monitoring
- Hotels, restaurants and bars
- Houses of Worship and auditoriums
- Educational facilities
- Live music and dance clubs
- Mobile DJ's



#### **Four-Channel Class D Amplifier**



The VIA2004 is an advanced 4-channel power amplifier which delivers superb audio performance in a lightweight, cost-effective package. Delivering 4 x 500 watts into 4 ohms, it is ideal for powering O-Line, ADORN and CDD Series installations in bars, auditoriums and HoW, as well as small-medium scale portable sound reinforcement and club use.

Its high efficiency design reduces the energy drawn from the mains supply and ensures the power reserves needed to deliver superb sound in demanding environments with reliability and ease.

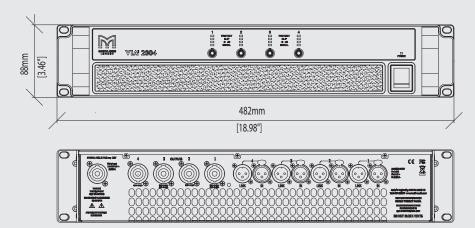
Comprehensive protection functions continuously monitor its performance to maintain safe operating conditions and full output capability in ambient temperatures up to  $40^{\circ}$ C.

For a wide variety of installations and portable applications, the VIA2004 is ideally partnered with the Martin Audio DX0.5 system processor. Larger installations will benefit from use with the DX4.0 processor with its onboard network capability and proprietary VU-NET software control. The DX4.0 and VIA2004 combination is perfect for delivering cost-effective scalable resolution under VU-NET control to an installed O-Line array.

#### **FEATURES**

- Four channels of efficient Class D amplification
- 2000 Watts total power output
- 2U rack height
- Exceptionally lightweight
- Switch mode power supply
- Variable speed cooling fans with front-to-back airflow
- Global mains operation, 100-240V auto-sensing
- Comprehensive protection systems
- Signal and clip limiter LEDs

- Small to medium-scale installations
- Portable sound and stage monitoring
- Hotels, restaurants and bars
- Houses of Worship and auditoriums
- Educational facilities
- Live music and dance clubs
- Mobile DJ's



#### **Four-Channel Class D Amplifier**





The VIA5004 is an advanced 4-channel power amplifier which combines high power density with superb audio performance in a lightweight, cost-effective package. Delivering 4 x 1250 watts into 2 ohms, or 2 x 2500 watts into 4 ohms bridged, it is ideal for powering Blackline X, CDD and V. Series systems in small to medium-scale installations and portable sound applications. It can also be configured for 3-channel operation, for perfect compatibility with TH Series 3-way systems.

Its high efficiency design reduces the energy drawn from the mains supply and ensures the power reserves needed to deliver superb sound in demanding environments with reliability and ease.

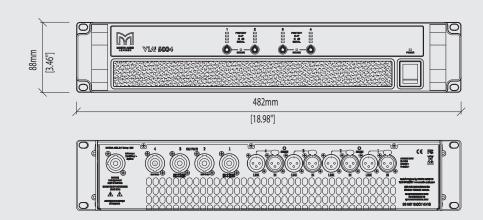
Comprehensive protection functions continuously monitor its performance to maintain safe operating conditions and full output capability in ambient temperatures up to  $40^{\circ}\text{C}$ .

For a wide variety of installations and portable situations, the VIA5004 is ideally partnered with the Martin Audio DX0.5 system processor. Larger installations will benefit from use with the DX4.0 with its onboard network capability and proprietary VU-NET software control.

#### **FEATURES**

- Four channels of efficient Class D amplification
- 5000 Watts total power output
- 2U rack height
- Exceptionally lightweight
- Switch mode power supply
- Variable speed cooling fans with front-to-back airflow
- Global mains operation, 100-240V auto-sensing
- Comprehensive protection systems
- Signal and clip limiter LEDs

- Small to medium-scale installations
- Portable sound and stage monitoring
- Hotels, restaurants and bars
- Houses of Worship and auditoriums
- Educational facilities
- Live music and dance clubs



# **CONTROLLERS**



#### **DX0.4**

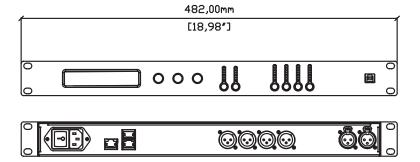
#### **Networked System Controller**



The DXO.4 is the ideal processing tool to partner the ADORN, CDD and BlacklineX ranges or indeed any system where comprehensive system control and protection is required, perhaps where there may be budget constraints.

The DXO.4 offers a substantial array of processing options. Routing is freely assignable from the 2 inputs to the 4 outputs. Input and output equalisation is available with a choice of 16 filter options. An input noise gate will help deal with noisy signal sources. Input and output delay is available to time align components in a system. Crossover filters with slopes from -6dB/octave up to -48dB/octave are available in the three most popular filter types, and a two-stage limiter; program and peak, will protect your speakers from damage due to excessive power.

The processor feature 32 User Memory locations to store popular configurations and settings can be exported to a file via the dedicated PC application. PC connectivity is available via a front panel USB port for quick and easy connection of a single processor, but larger systems with several processors can use Ethernet or RS485 network connections.



#### **FEATURES**

- Professional 2-input, 4 output system processor for a wide range of system applications.
- Comprehensive, sophisticated processing options including EQ, gate, delay and limiting to optimise and protect a system.
- Fully assignable matrix routing of both inputs to any output with attenuation option on each routing node.
- Two balanced XLR inputs with up to 12dB of gain, polarity invert, 600ms of delay, 10 band parametric EQ with a choice of 16 filter types individually selectable for each band.
- Four balanced XLR outputs with 12dB of gain, polarity invert, 200ms delay, high and low pass filters. 8 band parametric EQ with up a choice of 16 filter types, Independent Program and Peak Limiters
- Convenient front panel controls and LCD display.
- One press mute buttons for all inputs and outputs.
- Front panel USB port for quick and easy PC connection.
- Networking option using either Ethernet or RS485 for larger systems.
- Output channel preset import function to quickly and easily compile a system to suit any application utilising a library of Martin Audio product channel presets.
- 32 User Presets to store system configurations.
- Universal switch mode mains PSU accepts 90 to 240V, 50/60Hz.

- Live sound loudspeaker management
- Active monitor systems
- Fixed installations

#### **DX0.6**

#### **Networked System Controller**

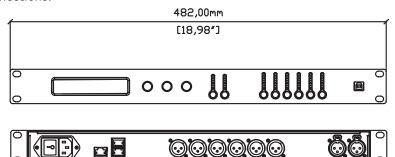




The DX0.6 is the ideal processing tool to partner the ADORN, CDD and BlacklineX ranges or indeed any system where comprehensive system control and protection is required perhaps where there may be budget constraints.

Both processors offer a substantial array of processing options. Routing is freely assignable from the 2 inputs to the 6 outputs. Input and output equalisation is available with a choice of 16 filter options. An input noise gate will help deal with noisy signal sources. Input and output delay is available to time align components in a system. Crossover filters with slopes from -6dB/octave up to -48dB/octave are available in the three most popular filter types, and a two-stage limiter; program and peak, will protect your speakers from damage due to excessive power being applied.

The processor features 32 User Memory locations to store popular configurations and settings can be exported to a file via the dedicated PC application, either as a back-up or to store more favourite configurations if the 32 on-board presets are not sufficient. PC connectivity is available via a front panel USB port for quick and easy connection of a single processor, but larger systems with several processors can use Ethernet or RS485 network connections.



#### **FEATURES**

- Professional 2-input, 6 output system processor for a wide range of system applications.
- Comprehensive, sophisticated processing options including EQ, gate, delay and limiting to optimise and protect a system.
- Fully assignable matrix routing of both inputs to any output with attenuation option on each routing node.
- Two balanced XLR inputs with up to 12dB of gain, polarity invert, 600ms of delay, 10 band parametric EQ with a choice of 16 filter types individually selectable for each band.
- Four balanced XLR outputs with 12dB of gain, polarity invert, 200ms delay, high and low pass filters. 8 band parametric EQ with up a choice of 16 filter types, Independent Program and Peak Limiters
- Convenient front panel controls and LCD display.
- One press mute buttons for all inputs and outputs.
- Front panel USB port for quick and easy PC connection.
- Networking option using either Ethernet or RS485 for larger systems.
- Output channel preset import function to quickly and easily compile a system to suit any application utilising a library of Martin Audio product channel presets.
- 32 User Presets to store system configurations.
- Universal switch mode mains PSU accepts 90 to 240V, 50/60Hz.

- Live sound loudspeaker management
- Active monitor systems
- Fixed installations

#### **DX4.0**

#### **Networked System Controller**





The Martin Audio DX4.0 is an advanced loudspeaker controller and system matrix with four input and eight output channels.

Class-leading sonic performance is achieved by state-of-the-art audio converters and DSP algorithms, with a 96kHz sampling frequency delivering a nominally flat response beyond 40kHz.

Connected via Ethernet, system remote control and monitoring is done via Martin Audio's VU-NET proprietary software application, while a front panel interface gives local control of features.

Four analogue/AES3 inputs and eight analogue/AES outputs are available, with AES3 inputs and outputs selected in pairs. Dante<sup>™</sup> digital audio networking is also provided for digital audio distribution and control, with automatic fall back to analogue or AES3. By converting analogue or AES audio to Dante, the DX4.0 provides 'on-ramp' entry to digital audio networking.

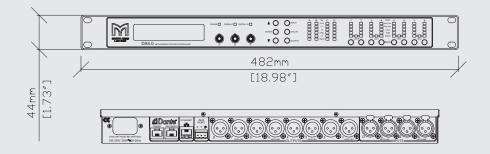
The DX4.0 features a sophisticated loudspeaker limiter suite which incorporates peak, RMS and excursion limiting, as well as multiband limiting for passive two-way systems. High-pass filtering, three shelving filters and six parametric filters are provided for each input channel, with crossover filters, two shelving filters and eight parametric filters on each output channel.

The DX4.0 supports FIR filters for use with optimisation of Martin Audio's O-Line and can also be used with Martin Audio's U-Hub to feed digital audio and network to an MLA Series array/subwoofer array via a single cable.

#### **FEATURES**

- Four input channels and eight output channels loudspeaker processor and matrix
- Analogue, AES3 and Dante<sup>™</sup> digital audio inputs
- High performance 96kHz DSP
- Remote control and monitoring over Ethernet via Martin Audio VU-NET software
- FIR optimisation for Martin Audio's O-Line
- VX limiting gives a passive enclosure the same protection as a fully active unit
- Comprehensive suite of EQ's, delays and all pass filters
- Global mains operation 100-240V, 50-60Hz

- Loudspeaker system digital controller
- Front-of-house matrix to feed Dante digital audio to iKON amplifiers powering Martin Audio loudspeaker systems
- Use with Martin Audio O-Line for FIR Optimisation
- Use with Martin Audio U-Hub to feed digital audio and network to an MLA Series array/subwoofer array via a single cable



# U-Hub Ethernet to U-NET™ Bridge





U-Hub is an Ethernet to U-NET bridge equipped with analogue and AES3 digital audio transport. It facilitates PC connection and VU-NET™ software control of MLA Series arrays and subwoofers via their inbuilt proprietary U-NET network.

Converting TCP/IP to U-NET protocol, U-Hub allows MLA Series enclosures to self-address and identify their position within an array, as well as supporting a simple-to-use redundant loop. With U-Hub, an MLA Series system with onboard U-NET can be seamlessly integrated into a TCP/IP network and controlled via VU-NET software.

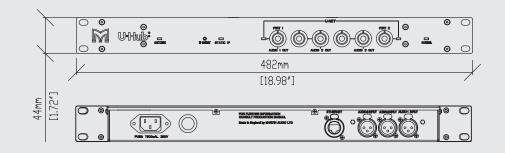
When used in conjunction with the Martin Audio DX4.0 networked system controller, U-Hub can connect audio and network to an MLA Series system with a single cable via a Dante™ digital audio network.

#### **FEATURES**

- Ethernet to U-NET™ bridge
- IP addressable (static and dynamic)
- Analogue and digital audio transport
- Designed to work with DX4.0 loudspeaker processor for Dante<sup>™</sup> digital audio distribution

#### **APPLICATIONS**

• Network platform/converter for MLA Series systems



#### **TECHNICAL SPECIFICATIONS – AMPLIFIERS**

# iK42

General	
TYPF	Four-channel Class D amplifier
POWER OUTPUT*	5000W into 2 ohms
TOTAL CONTON	3000W into 4 ohms
	1500W into 8 ohms
	10000W bridged per channel pair, 4 ohms
CV LINE OUTPUT*	1250W, 25V line
51 E.I.I.E 6511 61	3500W. 70V line
	5000W. 100V line
DIGITAL SIGNAL PROCESSING	96kHz/48kHz DSP on all inputs and outputs
COOLING	Dual vari-speed fans, front-to-back airflow
MAXIMUM AMBIENT TEMPERATURE	40°C (105°F)
Audio Inputs/Outputs	
ANALOGUE IN/LINK (4 CHANNELS)	4 x female, 4 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	20kΩ balanced to ground
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
AES3 IN/LINK (2 CHANNELS)	1 x female, 1 x male Neutrik™ XLR, balanced
DANTE™ (4 CHANNELS)	2 x shielded RJ45, primary and secondary
AMPLIFIER OUTPUTS	4 x Neutrik Speakon™ NL4
Audio Performance	·
DYNAMIC RANGE	>113dBA, analogue input
	>114dBA AES/Dante™ input
FREQUENCY RESPONSE	7Hz-30kHz (-2.5dB points, 4 ohm load)
TOTAL HARMONIC DISTORTION	<0.05% typical @ 1kHz, 4 ohm load
SLEW RATE	>60V per microsecond
DAMPING FACTOR	>800 at amplifier output, ref 8 ohms
Control and Monitoring Network	
PROTOCOL	Ethernet
CONTROL APPLICATION	Martin Audio VU-NET™
Digital Signal Processing	
SAMPLE RATE	96kHz (48kHz for FIR filter implementation)
PHYSICAL INPUTS	4 x analogue, 2 x AES, 4 x Dante™ inputs
	routable to four DSP drive modules
DRIVE MODULE INPUT DSP	Input signal routing, delay, gain, HPF, Phase, Mute
	EQ: 2 x low shelf, 6 x PEQ/bandpass and FIR
	shelving filters
DRIVE MODULE OUTPUT DSP	Source, delay, gain, Phase, Mute, crossover filters,
	limiters
	EQ: low shelf, 8 x PEQ / band pass and shelving
	filters
Power Supply	High and annual Control December
TYPE	High performance Series Resonant
AC INPUT OPERATING RANGE	85 – 240V ~ AC, 47 - 63Hz
MAINS INRUSH CURRENT	6A at 115V, 12A at 230V (max for <10ms) Neutrik 32A Powercon™
MAINS CONNECTOR	NEULTIK SZA POWEICOIT'''
Physical DIMFNSIONS	(W) 483 x (H) 2U/89mm x (D) 357mm
DIIVILINOIUNO	(W) 19in x (H) 2U/3.5in x (D) 14.1in
	incl handles and optional rear support
WEIGHT	12.5kg (27.5lbs)
WLIGHT	12.Jng (21.Jlus)

iK81	
General	
TYPE	Eight-channel Class D amplifier
POWER OUTPUT*	1250W into 2 ohms
	1250W into 4 ohms
	1250W into 8 ohms
	2500W bridged per channel pair, 4 or 8 ohms

# 1250W into 8 ohms 2500W bridged per channel pair, 4 or 8 ohms 2500W bridged per channel pair, 4 or 8 ohms CV LINE OUTPUT\* 625W, 25V line 1250W, 70V line 1250W, 100V line DIGITAL SIGNAL PROCESSING 96kHz/48kHz DSP on all inputs and outputs COOLING MAXIMUM AMBIENT TEMPERATURE 40°C (104°F) Audio Inputs/Outputs

ANALOGUE IN/LINK (4 CHANNELS)	4 x female, 4 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	20kΩ balanced to ground
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
AES3 IN/LINK (2 CHANNELS)	1 x female, 1 x male Neutrik™ XLR, balanced
DANTE™ (4 CHANNELS)	2 x shielded RJ45, primary and secondary
AMPLIFIER OUTPUTS	4 x Neutrik Speakon™ NL4

AMPLIFIER UUTPUTS	4 x Meditik Speakoli ML4
Audio Performance	
DYNAMIC RANGE	>113dBA, analogue input
	>114dBA AES/Dante™ input
FREQUENCY RESPONSE	7Hz-30kHz (-2.5dB points, 4 ohm load)
TOTAL HARMONIC DISTORTION	<0.05% typical @ 1kHz, 4 ohm load
SLEW RATE	>60V per microsecond
DAMPING FACTOR	>800 at amplifier output, ref 8 ohms
Control and Monitoring Network	

PROTOCOL PROTOCOL

	Ethornot
CONTROL APPLICATION	Martin Audio VU-NET™
Digital Signal Processing	
SAMPLE RATE	96kHz (48kHz for FIR filter implementation)
PHYSICAL INPUTS	4 x analogue, 2 x AES, 4 x Dante™ inputs
	routable to four DSP drive modules
DRIVE MODULE INPUT DSP	Input signal routing, delay, gain, HPF, Phase, Mute
	EQ: 2 x low shelf, 6 x PEQ/bandpass and FIR
	shelving filters
DRIVE MODULE OUTPUT DSP	Source, delay, gain, Phase, Mute, crossover filters
	Unit kana

EQ: low shelf, 8 x PEQ / band pass and shelving

Ethernet

	filters
Power Supply	
TYPE	High performance Series Resonant
AC INPUT OPERATING RANGE	85 – 240V ~ AC, 47 - 63Hz
MAINS INRUSH CURRENT	6A at 115V, 12A at 230V (max for <10ms)
MAINS CONNECTOR	Neutrik 32A Powercon™
Physical	

Physical	
DIMENSIONS	(W) 483 x (H) 2U/89mm x (D) 357mm
	(W) 19in x (H) 2U/3.5in x (D) 14.1in
	incl handles and optional rear support
WEIGHT	12.5kg (27.5lbs)

#### **VIA2502**

General	
TYPE	Two-channel Class D amplifier
POWER OUTPUT*	2 x 1250W into 2 ohms
	2 x 800W into 4 ohms
	2 x 450W into 8 ohms
	1 x 2500W bridged into 4 ohms
COOLING	Vari-speed fans, front-to-back airflow
MAXIMUM AMBIENT TEMPERATURE	40°C (105°F)
Audio Inputs/Outputs	· · ·
ANALOGUE IN/LINK (4 CHANNELS)	2 x female, 2 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	10kΩ Balanced
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
AMPLIFIER OUTPUTS	2 x Neutrik Speakon™ NL4
Audio Performance	·
OUTPUT NOISE	-113dBA, referenced to max output
	(22kHz bandwidth)
FREQUENCY RESPONSE	<10Hz - >20kHz +/- 0.25dB
TOTAL HARMONIC DISTORTION	<0.05% typical @ 1kHz, -3dB output
	(22kHz bandwidth)
SLEW RATE	>80V per microsecond
DAMPING FACTOR	120 ref 8 ohms
Power Supply	
TYPE	High current, high frequency
	switch-mode
AC INPUT OPERATING RANGE	100-240V +/-10%
	45 - 65Hz
TOTAL SYSTEM EFFICIENCY	>90% typical
MAINS CONNECTOR	1 x Neutrik Powercon™
Physical	
DIMENSIONS	(W) 482 x (H) 2U/88mm x (D) 441mm
	(W) 19in x (H) 2U/3.5in x (D) 17.4in
	incl handles and optional rear support
WEIGHT	8kg (17.6lbs)

 $<sup>^*</sup>$  RMS output power per channel, all channels driven with continuous program material and a nominal ambient temperature of 40°C /105°F

TYPE Two-channel Class D amplifier  POWER OUTPUT* 2 x 2500W into 4 ohms 2 x 1600W into 8 ohms  COOLING Vari-speed fans, front-to-back airflow  MAXIMUM AMBIENT TEMPERATURE 40°C (105°F)  Audio Inputs/Outputs  ANALOGUE IN/LINK (4 CHANNELS) 2 x female, 2 x male Neutrik™ XLR  ANALOGUE INPUT IMPEDANCE 10KΩ balanced  MAXIMUM ANALOGUE INPUT LEVEL +20dBu  AMPLIFIER OUTPUTS 2 x Neutrik Speakon™ NL4  Audio Performance  OUTPUT NOISE -113dBA, referenced to max output (22kHz bandwidth)  FREQUENCY RESPONSE <10Hz ->20kHz +/- 0.25dB  TOTAL HARMONIC DISTORTION <0.05% typical @ 1kHz, -3dB output (22kHz bandwidth)  SLEW RATE >80V per microsecond  DAMPING FACTOR 120 ref 8 ohms  Power Supplies  TYPE 2 x high current, high frequency switch-mode  AC INPUT OPERATING RANGE 100-240V +/-10% 45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical  MAINS CONNECTOR 1 x Neutrik Powercon™  Physical  DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support  WEIGHT 10kg (22lbs)	General	
2 x 1600W into 8 ohms  COOLING Vari-speed fans, front-to-back airflow  MAXIMUM AMBIENT TEMPERATURE 40°C (105°F)  Audio Inputs/Outputs  ANALOGUE IN/LINK (4 CHANNELS) 2 x female, 2 x male Neutrik™ XLR  ANALOGUE INPUT IMPEDANCE 10KΩ balanced  MAXIMUM ANALOGUE INPUT LEVEL +20dBu  AMPLIFIER OUTPUTS 2 x Neutrik Speakon™ NL4  Audio Performance  OUTPUT NOISE -113dBA, referenced to max output (22kHz bandwidth)  FREQUENCY RESPONSE <10Hz ->20kHz +/- 0.25dB  TOTAL HARMONIC DISTORTION <0.05% typical @ 1kHz, -3dB output (22kHz bandwidth)  SLEW RATE >80V per microsecond  DAMPING FACTOR 120 ref 8 ohms  Power Supplies  TYPE 2 x high current, high frequency switch-mode  AC INPUT OPERATING RANGE 100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical  MAINS CONNECTOR 1 x Neutrik Powercon™  Physical  DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support	TYPE	Two-channel Class D amplifier
COOLING Vari-speed fans, front-to-back airflow MAXIMUM AMBIENT TEMPERATURE 40°C (105°F)  Audio Inputs/Outputs  ANALOGUE IN/LINK (4 CHANNELS) 2 x female, 2 x male Neutrik™ XLR  ANALOGUE INPUT IMPEDANCE 10KΩ balanced  MAXIMUM ANALOGUE INPUT LEVEL +20dBu  AMPLIFIER OUTPUTS 2 x Neutrik Speakon™ NL4  Audio Performance  OUTPUT NOISE -113dBA, referenced to max output (22kHz bandwidth)  FREQUENCY RESPONSE <10Hz - >20kHz +/- 0.25dB  TOTAL HARMONIC DISTORTION <0.05% typical @ 1kHz, -3dB output (22kHz bandwidth)  SLEW RATE >80V per microsecond  DAMPING FACTOR 120 ref 8 ohms  Power Supplies  TYPE 2 x high current, high frequency switch-mode  AC INPUT OPERATING RANGE 100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical  MAINS CONNECTOR 1 x Neutrik Powercon™  Physical  DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support	POWER OUTPUT*	2 x 2500W into 4 ohms
MAXIMUM AMBIENT TEMPERATURE  Audio Inputs/Outputs  ANALOGUE IN/LINK (4 CHANNELS)  ANALOGUE INPUT IMPEDANCE  MAXIMUM ANALOGUE INPUT LEVEL  AMALIFIER OUTPUTS  ANALOGUE INPUT IMPEDANCE  MAXIMUM ANALOGUE INPUT LEVEL  AUDIO Performance  OUTPUT NOISE  -113dBA, referenced to max output  (22kHz bandwidth)  FREQUENCY RESPONSE  -10Hz - >20kHz +/- 0.25dB  TOTAL HARMONIC DISTORTION  (22kHz bandwidth)  SLEW RATE  >80V per microsecond  DAMPING FACTOR  120 ref 8 ohms  Power Supplies  TYPE  2 x high current, high frequency  switch-mode  AC INPUT OPERATING RANGE  100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY  >90% typical  MAINS CONNECTOR  Physical  UW) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in  incl handles and optional rear support		2 x 1600W into 8 ohms
Audio Inputs/Outputs         ANALOGUE IN/LINK (4 CHANNELS)       2 x female, 2 x male Neutrik™ XLR         ANALOGUE INPUT IMPEDANCE       10KΩ balanced         MAXIMUM ANALOGUE INPUT LEVEL       +20dBu         AMPLIFIER OUTPUTS       2 x Neutrik Speakon™ NL4         Audio Performance       0UTPUT NOISE         OUTPUT NOISE       -113dBA, referenced to max output         (22kHz bandwidth)       (22kHz bandwidth)         FREQUENCY RESPONSE       <10Hz - >20kHz +/- 0.25dB         TOTAL HARMONIC DISTORTION       <0.05% typical @ 1kHz, -3dB output	COOLING	Vari-speed fans, front-to-back airflow
ANALOGUE IN/LINK (4 CHANNELS)  ANALOGUE INPUT IMPEDANCE  MAXIMUM ANALOGUE INPUT LEVEL  AMPLIFIER OUTPUTS  ANALOGUE INPUT S  AMPLIFIER OUTPUTS  ANALOGUE INPUT LEVEL  +20dBu  +20dBu  ANALOGUE INPUT NL4  Audio Performance  OUTPUT NOISE  -113dBA, referenced to max output  (22kHz bandwidth)  FREQUENCY RESPONSE  -10Hz ->20kHz +/- 0.25dB  TOTAL HARMONIC DISTORTION  (22kHz bandwidth)  SLEW RATE  >80V per microsecond  DAMPING FACTOR  120 ref 8 ohms  Power Supplies  TYPE  2 x high current, high frequency  switch-mode  AC INPUT OPERATING RANGE  100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY  >90% typical  MAINS CONNECTOR  1 x Neutrik Powercon™  Physical  DIMENSIONS  (W) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in  incl handles and optional rear support	MAXIMUM AMBIENT TEMPERATURE	40°C (105°F)
ANALOGUE INPUT IMPEDANCE  MAXIMUM ANALOGUE INPUT LEVEL  AMPLIFIER OUTPUTS  2 x Neutrik Speakon™ NL4  Audio Performance  OUTPUT NOISE  -113dBA, referenced to max output  (22kHz bandwidth)  FREQUENCY RESPONSE  -10Hz ->20kHz +/- 0.25dB  TOTAL HARMONIC DISTORTION  -0.05% typical @ 1kHz, -3dB output  (22kHz bandwidth)  SLEW RATE  -80V per microsecond  DAMPING FACTOR  120 ref 8 ohms  Power Supplies  TYPE  2 x high current, high frequency  switch-mode  AC INPUT OPERATING RANGE  100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY  -90% typical  MAINS CONNECTOR  1 x Neutrik Powercon™  Physical  DIMENSIONS  (W) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in  incl handles and optional rear support	Audio Inputs/Outputs	
MAXIMUM ANALOGUE INPUT LEVEL +20dBu  AMPLIFIER OUTPUTS 2 x Neutrik Speakon™ NL4  Audio Performance  OUTPUT NOISE -113dBA, referenced to max output  (22kHz bandwidth)  FREQUENCY RESPONSE <10Hz ->20kHz +/- 0.25dB  TOTAL HARMONIC DISTORTION <0.05% typical @ 1kHz, -3dB output  (22kHz bandwidth)  SLEW RATE >80V per microsecond  DAMPING FACTOR 120 ref 8 ohms  Power Supplies  TYPE 2 x high current, high frequency  switch-mode  AC INPUT OPERATING RANGE 100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical  MAINS CONNECTOR 1 x Neutrik Powercon™  Physical  DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in  incl handles and optional rear support	ANALOGUE IN/LINK (4 CHANNELS)	2 x female, 2 x male Neutrik™ XLR
AMPLIFIER OUTPUTS  Audio Performance  OUTPUT NOISE  -113dBA, referenced to max output (22kHz bandwidth)  FREQUENCY RESPONSE  TOTAL HARMONIC DISTORTION  -0.05% typical @ 1kHz, -3dB output (22kHz bandwidth)  SLEW RATE  >80V per microsecond  DAMPING FACTOR  120 ref 8 ohms  Power Supplies  TYPE  2 x high current, high frequency switch-mode  AC INPUT OPERATING RANGE  100-240V +/-10% 45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical MAINS CONNECTOR  1 x Neutrik Powercon™  Physical  DIMENSIONS  (W) 482 x (H) 2U/88mm x (D) 441mm (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support	ANALOGUE INPUT IMPEDANCE	10KΩ balanced
Audio Performance  OUTPUT NOISE -113dBA, referenced to max output  (22kHz bandwidth)  FREQUENCY RESPONSE <10Hz ->20kHz +/- 0.25dB  TOTAL HARMONIC DISTORTION <0.05% typical @ 1kHz, -3dB output  (22kHz bandwidth)  SLEW RATE >80V per microsecond  DAMPING FACTOR 120 ref 8 ohms  Power Supplies  TYPE 2 x high current, high frequency  switch-mode  AC INPUT OPERATING RANGE 100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical  MAINS CONNECTOR 1 x Neutrik Powercon™  Physical  DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in  incl handles and optional rear support	MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
OUTPUT NOISE  -113dBA, referenced to max output  (22kHz bandwidth)  FREQUENCY RESPONSE  -10Hz - > 20kHz +/- 0.25dB  TOTAL HARMONIC DISTORTION  -0.05% typical @ 1kHz, -3dB output  (22kHz bandwidth)  SLEW RATE  >80V per microsecond  DAMPING FACTOR  120 ref 8 ohms  Power Supplies  TYPE  2 x high current, high frequency  switch-mode  AC INPUT OPERATING RANGE  100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY  >90% typical  MAINS CONNECTOR  1 x Neutrik Powercon™  Physical  DIMENSIONS  (W) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in  incl handles and optional rear support	AMPLIFIER OUTPUTS	2 x Neutrik Speakon™ NL4
(22kHz bandwidth)  FREQUENCY RESPONSE <10Hz ->20kHz +/- 0.25dB  TOTAL HARMONIC DISTORTION <0.05% typical @ 1kHz, -3dB output (22kHz bandwidth)  SLEW RATE >80V per microsecond  DAMPING FACTOR 120 ref 8 ohms  Power Supplies  TYPE 2 x high current, high frequency switch-mode  AC INPUT OPERATING RANGE 100-240V +/-10% 45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical  MAINS CONNECTOR 1 x Neutrik Powercon™  Physical  DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support	Audio Performance	
FREQUENCY RESPONSE  TOTAL HARMONIC DISTORTION  C2kHz bandwidth)  SLEW RATE  >80V per microsecond  DAMPING FACTOR  120 ref 8 ohms  Power Supplies  TYPE  2 x high current, high frequency switch-mode  AC INPUT OPERATING RANGE  100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY  MAINS CONNECTOR  1 x Neutrik Powercon™  Physical  DIMENSIONS  (W) 482 x (H) 2U/88mm x (D) 441mm (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support	OUTPUT NOISE	-113dBA, referenced to max output
TOTAL HARMONIC DISTORTION <pre>C0.05% typical @ 1kHz, -3dB output (22kHz bandwidth)  SLEW RATE</pre>		(22kHz bandwidth)
(22kHz bandwidth)           SLEW RATE         >80V per microsecond           DAMPING FACTOR         120 ref 8 ohms           Power Supplies           TYPE         2 x high current, high frequency           switch-mode           AC INPUT OPERATING RANGE         100-240V +/-10%           45 - 65Hz           TOTAL SYSTEM EFFICIENCY         >90% typical           MAINS CONNECTOR         1 x Neutrik Powercon <sup>TM</sup> Physical           DIMENSIONS         (W) 482 x (H) 2U/88mm x (D) 441mm           (W) 19in x (H) 2U/3.5in x (D) 17.4in           incl handles and optional rear support	FREQUENCY RESPONSE	<10Hz - >20kHz +/- 0.25dB
SLEW RATE >80V per microsecond  DAMPING FACTOR 120 ref 8 ohms  Power Supplies  TYPE 2 x high current, high frequency switch-mode AC INPUT OPERATING RANGE 100-240V +/-10% 45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical  MAINS CONNECTOR 1 x Neutrik Powercon™  Physical  DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support	TOTAL HARMONIC DISTORTION	
DAMPING FACTOR  Power Supplies  TYPE  2 x high current, high frequency switch-mode  AC INPUT OPERATING RANGE  100-240V +/-10% 45-65Hz  TOTAL SYSTEM EFFICIENCY MAINS CONNECTOR 1 x Neutrik Powercon™  Physical DIMENSIONS  (W) 482 x (H) 2U/88mm x (D) 441mm (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support		(22kHz bandwidth)
Power Supplies  TYPE  2 x high current, high frequency switch-mode  AC INPUT OPERATING RANGE  100-240V +/-10% 45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical MAINS CONNECTOR 1 x Neutrik Powercon™  Physical DIMENSIONS  (W) 482 x (H) 2U/88mm x (D) 441mm (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support	SLEW RATE	>80V per microsecond
TYPE 2 x high current, high frequency switch-mode  AC INPUT OPERATING RANGE 100-240V +/-10% 45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical  MAINS CONNECTOR 1 x Neutrik Powercon™  Physical  DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support	DAMPING FACTOR	120 ref 8 ohms
switch-mode  AC INPUT OPERATING RANGE  100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY  MAINS CONNECTOR  1 x Neutrik Powercon <sup>TM</sup> Physical  DIMENSIONS  (W) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in  incl handles and optional rear support		
AC INPUT OPERATING RANGE  100-240V +/-10%  45 - 65Hz  TOTAL SYSTEM EFFICIENCY  >90% typical  MAINS CONNECTOR  1 x Neutrik Powercon <sup>TM</sup> Physical  DIMENSIONS  (W) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in  incl handles and optional rear support	TYPE	
45 - 65Hz  TOTAL SYSTEM EFFICIENCY >90% typical  MAINS CONNECTOR 1 x Neutrik Powercon™  Physical  DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in  incl handles and optional rear support		switch-mode
TOTAL SYSTEM EFFICIENCY >90% typical  MAINS CONNECTOR 1 x Neutrik Powercon <sup>TM</sup> Physical  DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm  (W) 19in x (H) 2U/3.5in x (D) 17.4in  incl handles and optional rear support	AC INPUT OPERATING RANGE	100-240V +/-10%
MAINS CONNECTOR         1 x Neutrik Powercon™           Physical         (W) 482 x (H) 2U/88mm x (D) 441mm           DIMENSIONS         (W) 19in x (H) 2U/3.5in x (D) 17.4in           incl handles and optional rear support		
Physical           DIMENSIONS         (W) 482 x (H) 2U/88mm x (D) 441mm           (W) 19in x (H) 2U/3.5in x (D) 17.4in           incl handles and optional rear support	TOTAL SYSTEM EFFICIENCY	>90% typical
DIMENSIONS (W) 482 x (H) 2U/88mm x (D) 441mm (W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support		1 x Neutrik Powercon™
(W) 19in x (H) 2U/3.5in x (D) 17.4in incl handles and optional rear support		
incl handles and optional rear support	DIMENSIONS	
WEIGHT 10kg (22lbs)		
	WEIGHT	10kg (22lbs)

# VIA2004

General	
TYPE	Four-channel Class D amplifier
POWER OUTPUT*	4 x 500W into 4 ohms
	4 x 250W into 8 ohms
COOLING	Vari-speed fans, front-to-back airflow
MAXIMUM AMBIENT TEMPERATURE	40°C (105°F)
Audio Inputs/Outputs	
ANALOGUE IN/LINK (4 CHANNELS)	4 x female, 4 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	5 kΩ typical, balanced
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
AMPLIFIER OUTPUTS	4 x Neutrik Speakon™ NL4
Audio Performance	
FREQUENCY RESPONSE	20Hz - 20kHz +/- 0.45dB, 4 ohm load
TOTAL HARMONIC DISTORTION	0.003% typical, 1kHz @ 1W
Power Supplies	
TYPE	2 x high current, high frequency
	switch-mode
AC INPUT OPERATING RANGE	100-240V +/-10%
	45 - 65Hz
MAINS CONNECTOR	1 x Neutrik Powercon™
TOTAL SYSTEM EFFICIENCY	89% (4 x 250W into 8 ohms)
Physical	
DIMENSIONS	(W) 482 x (H) 2U/88mm x (D) 441mm
	(W) 19in x (H) 2U/3.5in x (D) 17.4in
	incl handles and optional rear support
WEIGHT	8kg (17.6lbs)

# VIA5004

General	
TYPF	Four-channel Class D amplifier
POWER OUTPUT*	4 x 1250W into 2 ohms
FUWER OUTFUT	4 x 800W into 4 ohms
	4 x 450W into 8 ohms
00011810	2 x 2500W bridged into 4 ohms
COOLING	Vari-speed fans, front-to-back airflow
MAXIMUM AMBIENT TEMPERATURE	40°C (105°F)
Audio Inputs/Outputs	
ANALOGUE IN/LINK (4 CHANNELS)	4 x female, 4 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	10KΩ balanced
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
AMPLIFIER OUTPUTS	4 x Neutrik Speakon™ NL4
Audio Performance	
OUTPUT NOISE	-113dBA, referenced to max output
	(22kHz bandwidth)
FREQUENCY RESPONSE	<10Hz - >20kHz +/- 0.25dB
TOTAL HARMONIC DISTORTION	<0.05% typical @ 1kHz, -3dB output
	(22kHz bandwidth)
SLEW RATE	>80V per microsecond
DAMPING FACTOR	120 ref 8 ohms
Power Supplies	
TYPE	2 x high current, high frequency
	switch-mode
AC INPUT OPERATING RANGE	100-240V +/-10%
	45 - 65Hz
TOTAL SYSTEM EFFICIENCY	>90% typical
MAINS CONNECTOR	1 x Neutrik Powercon™
Physical	
DIMENSIONS	(W) 482 x (H) 2U/88mm x (D) 441mm
	(W) 19in x (H) 2U/3.5in x (D) 17.4in
	incl handles and optional rear support
WEIGHT	10kg (22lbs)

### **TECHNICAL SPECIFICATIONS – CONTROLLERS**

# DX0.4 & DX0.6

General		
INPUT IMPEDANCE:		20k Ohm balanced
		100R
		+20dBu
MAX OUTPUT LEVEL:		+18dBu
CROSSTALK:		<-95dB
SAMPLE RATE:		96kHz
SIGNAL TO NOISE RATION		>113dB (A weighted)
NOISE FLOOR:		<-94dB (A weighted)
COMMON MODE REJECTION	N PATIO	60dB
FREQUENCY RESPONSE:	MINALIO	20Hz - 40kHz +0.3dB
INPUT A/D DYNAMIC RANG	С.	118dB
OUTPUT D/A DYNAMIC RAN		118dB
THD (+4dBu 1kHz):	IUL:	<0.003%
MAINS VOLTAGE RANGE:		85-230VAC 50-60Hz
NOMINAL POWER CONSUM	IDTION	30W
INDIVINAL FUWER CONSUM	ITTIUN:	JOUN
Connectors		
AUDIO INPUT:		2 x 3 pin female XLR
AUDIO OUTPUT:		4 x 3 pin male XLR (DX0.4)
		and 6 x 3 pin male XLR (DX0.6)
ETHERNET:		Shielded RJ45, Dynamic or Static IP
RS485:		2 x RJ45
USB:		1 x USB B (Front Panel)
MAINS:		3 pin IEC
Dracesing		
Processing SIGNAL GENERATOR:	White/nin	k naisa 20dBu ta + 10dBu
GAIN:		k noise, -30dBu to +10dBu
•		+12dB, step accuracy 0.1dB
INPUT EQUALISER:		PEQ, gain range +15dB
INPUT GATE:	16 x Filter	: -40 to -80dBu
INPUT GATE:		
ROUTING:		to 1,000ms. Release: 1 to 1,000ms
KUUTING:		ignable 2-in, 6 out
DELAY		B attenuation on each node
DELAY:		Oms. Output: 200ms
OUTDUT FUTEDO	Steps: 20us, Units: milliseconds, metres, feet	
OUTPUT FILIERS:	JTPUT FILTERS: High & Low Pass, -6dB/Octave to -48dB/Octave	
Slope types: Butterworth, Bessel, Linkwitz Riley		
OUTPUT EQUALISATION:		Q, gain +15dB
16 x filter		
DD00DAM LIMITED	FIR Filter Import	
PROGRAM LIMITER:	Threshold: -10 to +20dBu	
	Attack: 1 to 1,000ms	
DEAL LIMITED	Release: 10 to 3,000ms	
PEAK LIMITER:		: 0 to 12dB above Program Limiter Threshold
	Release: Fast (91ms), Medium (350ms), Slow (800ms)	
Physical		
DIMENSIONS:	(W) 482m	m x (H) 1U/44mm x (D) 230mm
(W) 19in x (H) 1U/1.75in x (D) 9.1in		
WEIGHT: 3.0kg (6.6l		
	6	,

### **DX4.0**

General	
TYPE	4 input/8 output digital loudspeaker processor
OPERATING TEMPERATURE	0 to 45°C
HUMIDITY RANGE	0 to 80% RH (non-condensing)
Audio Performance	
INPUT IMPEDANCE	$>$ 10k $\Omega$ balanced
OUTPUT IMPEDANCE	<100 $\Omega$ balanced
MAX INPUT LEVEL	+20dBu
MAX OUTPUT LEVEL	$+18$ dBu into $600\Omega$
FREQUENCY RESPONSE	10Hz - 40kHz
INPUT DYNAMIC RANGE	>120dBa typ.
OUTPUT DYNAMIC RANGE	>118dBa typ.
TOTAL HARMONIC DISTORTION	<0.008% typ. 20Hz-20kHz
Digital Signal Processing	
SAMPLE RATE	96kHz
AES3 INPUT SAMPLE RATE	28kHz — 108kHz
AES3 OUTPUT SAMPLE RATE	96kHz
Power Supply	
AC OPERATING RANGE	100-240V +/-10%
POWER CONSUMPTION	30W
Control and Monitoring	
PROTOCOL PROTOCOL	Ethernet
CONTROL APPLICATION	Martin Audio VU-NET™
Connectors	
AUDIO INPUT	4 x 3 pin female XLR for analogue or AES3 pairs
AUDIO OUTPUT	8 x 3 pin male XLR for analogue or AES3 pairs
ETHERNET	1 x shielded RJ45
DANTE™ NETWORK	2 x shielded RJ45, primary and secondary
AUX PORT	Phoenix connector for contact closure
MAINS POWER	3 pin IEC
Physical	
DIMENSIONS	(W) 482mm x (H) 1U/44mm x (D) 184mm
	(W) 19in x (H) 1U/1.75in x (D) 7.2in
WEIGHT	2.7kg (6lbs)

### U-Hub

TYPE Ethernet to U-NETTM bridge SUPPORTED PROTOCOLS Ethernet and U-NETTM CONTROL APPLICATION Martin Audio VU-NETTM AC OPERATING RANGE 100-240VAC Nominal, 50-60Hz Rear Panel AUDIO INPUTS 1, 2 and 3 3 x 3 pin female XLR type ETHERNET 1 x Neutrik® Ethercon MAINS POWER 3 pin IEC with cable locking mechanis FUSE User-replaceable 1A T-type 20mm Front Panel AUDIO OUT AND U-NET 6 x ODU 8-pin connector ports Audio In 1, 2, 3, Out on ports 1, 3, 5 UNET STATUS BI-colour Green/Red LED on port 1 and IP CONFIGURATION Yellow LED: On = Static IP, Off = Dyna IP RESET (TO DYNAMIC) Recessed push button ETHERNET CONNECTION Green LED = Online MAINS POWER Red LED = Mains power present	
CONTROL APPLICATION AC OPERATING RANGE Rear Panel  AUDIO INPUTS 1, 2 and 3  3 x 3 pin female XLR type  ETHERNET 1 x Neutrik® Ethercon  MAINS POWER 3 pin IEC with cable locking mechanis  FUSE User-replaceable 1A T-type 20mm  Front Panel  AUDIO OUT AND U-NET Audio In 1, 2, 3, Out on ports 1, 3, 5  UNET STATUS Bi-colour Green/Red LED on port 1 and  IP CONFIGURATION PRESET (TO DYNAMIC)  ETHERNET CONNECTION  Martin Audio VU-NET™ 1 x Neutrik® Ethercon 3 pin IEC with cable locking mechanis User-replaceable 1A T-type 20mm  Front Panel  Audio In 1, 2, 3, Out on ports 1, 3, 5  When the property of the proper	
AC OPERATING RANGE  Rear Panel  AUDIO INPUTS 1, 2 and 3  ETHERNET  MAINS POWER  Front Panel  AUDIO OUT AND U-NET  UNE STATUS  UNET STATUS  IP CONFIGURATION  IP RESET (TO DYNAMIC)  ETHERNET  AUDIO OUT AND U-NET  BI-COLOUR Green LED = Online  AUDIO OUT AND U-NET  BI-COLOUR Green LED = Online	
Rear Panel  AUDIO INPUTS 1, 2 and 3  S X 3 pin female XLR type  ETHERNET  1 x Neutrik® Ethercon  MAINS POWER  3 pin IEC with cable locking mechanis  FUSE  User-replaceable 1A T-type 20mm  Front Panel  AUDIO OUT AND U-NET  6 x ODU 8-pin connector ports  Audio In 1, 2, 3, Out on ports 1, 3, 5  UNET STATUS  Bi-colour Green/Red LED on port 1 and  IP CONFIGURATION  Yellow LED: On = Static IP, Off = Dyna  IP RESET (TO DYNAMIC)  Recessed push button  ETHERNET CONNECTION  Green LED = Online	
AUDIO INPUTS 1, 2 and 3  3 x 3 pin female XLR type ETHERNET  1 x Neutrik® Ethercon  MAINS POWER 3 pin IEC with cable locking mechanis FUSE User-replaceable 1A T-type 20mm  Front Panel  AUDIO OUT AND U-NET 6 x ODU 8-pin connector ports Audio In 1, 2, 3, Out on ports 1, 3, 5  UNET STATUS Bi-colour Green/Red LED on port 1 and IP CONFIGURATION Yellow LED: On = Static IP, Off = Dyna IP RESET (TO DYNAMIC) Recessed push button  ETHERNET CONNECTION Green LED = Online	
ETHERNET 1 x Neutrik® Ethercon  MAINS POWER 3 pin IEC with cable locking mechanis FUSE User-replaceable 1A T-type 20mm  Front Panel  AUDIO OUT AND U-NET 6 x ODU 8-pin connector ports  Audio In 1, 2, 3, Out on ports 1, 3, 5  UNET STATUS Bi-colour Green/Red LED on port 1 and IP CONFIGURATION Yellow LED: On = Static IP, Off = Dyna IP RESET (TO DYNAMIC) Recessed push button  ETHERNET CONNECTION Green LED = Online	
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Front Panel  AUDIO OUT AND U-NET  Audio In 1, 2, 3, Out on ports 1, 3, 5  UNET STATUS  Bi-colour Green/Red LED on port 1 and IP CONFIGURATION  PRESET (TO DYNAMIC)  ETHERNET CONNECTION  Recessed push button  Green LED = Online	m
AUDIO OUT AND U-NET  Audio In 1, 2, 3, Out on ports 1, 3, 5  UNET STATUS  IP CONFIGURATION  IP RESET (TO DYNAMIC)  ETHERNET CONNECTION  Audio In 1, 2, 3, Out on ports 1, 3, 5  Bi-colour Green/Red LED on port 1 and  Yellow LED: On = Static IP, Off = Dyna  IP RESET (TO DYNAMIC)  Recessed push button  Green LED = Online	
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ETHERNET CONNECTION Green LED = Online	mic
MAINS POWER Red LED — Mains nower present	
MAINS I OWER Present	
Physical	
DIMENSIONS (W) 482mm x (H) 1U/44mm x (D) 268n	ım
(W) 19in x (H) 1U/1.75in x (D) 10.6in	
WEIGHT 3.5Kg (7.7lbs)	

# ELECTRONICS

# COMPLETING THE CIRCUIT

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