

# Bias Q3



4-channel amplifier with integrated DSP, delivering 1400 W per channel in a 2U format, with touchscreen



#### POWER

1400 W per channel (8 Ω)



#### INPUT TYPE

Analog, AES3,  
Dante®/AES67



#### COMPUTER CONTROL

DSP



#### NUMBER OF CHANNELS

4 channels

Nightclubs & Bars

Festivals & Events

The Bias Q3 combines high-output performance with advanced system control, making it well suited to high-power, full-range systems. Its advanced DSP architecture and integration with ArmoníaPlus enable precise system tuning, monitoring and control across a wide range of applications.

With a high dynamic range DSP engine, flexible routing and comprehensive protection systems, the Bias Q3 provides full control over system performance. Its integrated touchscreen interface and compatibility with ArmoníaPlus allow for intuitive setup and real-time system management across complex configurations.

#### KEY FEATURES

4 channel amplifier delivering 1400 W per channel (8 Ω)

4.3 inch touch screen display and rotary encoder for intuitive control

Analog, AES3, Dante®/AES67 inputs and outputs

Full suite of DSP tools and monitoring via ArmoníaPlus software

Highly efficient Class-D design with patented SRM (Smart Rails Management) technology

Automatic power sharing, optimising delivery for asymmetrical loads

Ships with Void presets pre-installed, offering optimised frequency response, FIR-optimised phase response, and a suite of protection limiters

Universal mains operation (90–264 V AC)

**SPECIFICATIONS**
**Channel Handling**

Outputs	4 x Speakon NL4
Inputs	4 Dante®/AES67 TX (from local input or DSP)
Analog	4x XLR female
	4 x XLR male (LINK)
Digital AES3	4 (2x XLR)
	4 x XLR male (LINK)
Digital Dante®/AES67	2 XLR Ethercon (4 x audio channels)

**Audio**

	Gain	V <sub>rms</sub>
Input sensitivity @ 8 Ω	32 dB	2.86
S/N (20 Hz - 20 kHz @ 8 Ω)	109 Typ. dB(A)	
Max input level	24 dBu	
Frequency response @ 8 Ω load	20 Hz - 20 kHz +/- 1.0 dB	
Crosstalk (1 kHz)	-75 dB typ	
CMRR	65 dB typ	
THD+N (from 0.1 W to Full Power)	THD+N (from 0.1 W to Half Power) <0.1% (typical < 0.05%)	
SMPTE IMD (from 0.1 W to Half Power)	<0.1% (typical < 0.05%)	
Output impedance at 100 Hz	30 mΩ	

**DSP**

AD converters	24 Bit Tandem™ @ 48 kHz 125 dB-A Dynamic Range - 0.005 % THD+N
DA converters	24 Bit Tandem™ @ 48 kHz 117 dB-A Dynamic Range - 0.003 % THD+N
Sample rate converter	24 Bit @ 96 kHz 140 dB Dynamic Range - 0.0001 % THD+N
Internal precision	32 bit floating point
Latency	2.5 ms fixed latency architecture
Memory/Presets	50 amplifier snapshots, virtually unlimited speaker presets
Delay	2 s (input) + 100 ms (output) for time alignment
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass
Crossover	linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter
Damping control	Active DampingControl™ and LiveImpedance™ measurement

**Output Stage**

Maximum output power per channel @ 8 Ω (symmetrical)*	1400 W
Maximum output power per channel @ 4 Ω (symmetrical)*	2000 W
Maximum output power per channel @ 2 Ω (symmetrical)*	2000 W
Maximum output power per channel @ 8 Ω (asymmetrical)**	1500 W
Maximum output power per channel @ 4 Ω (asymmetrical)**	2300 W
Maximum output power per channel @ 2 Ω (asymmetrical)**	2000 W
Maximum output power @ 8 Ω bridged	4000 W
Maximum output power @ 4 Ω bridged	4000 W
Maximum unclipped output voltage	155 V <sub>peak</sub>
Maximum output current	>55 A <sub>peak</sub>

\* All channels driven and loaded symmetrically  
 \*\* All channels driven but channels 2 and 4 at -6 dB

**Power & Thermal**

	Standby	Power	Power
@ 100 V	Standby	Power	15.8 W
	Idle	Power	33.7 W
	1/8 power @ 4 Ω	Power	1429 W
		Current Draw	14.7 A <sub>rms</sub>
		Thermal Loss	1458 BTU/h
@ 240 V	Standby	Power	17.2 W
	Idle	Power	33.5 W
	1/8 power @ 4 Ω	Power	1327 W
		Current Draw	6.0 A <sub>rms</sub>
		Thermal Loss	1111 BTU/h
Power supply	Universal regulated switch mode v with PFC, SRM		
Nominal voltage (±10%)	100-240 VAC @ 50-60 Hz		
Operating voltage	90-264 VAC @ 50/60 Hz		
AC mains connector	IEC C20 inlet (20 A max)		

**Networking**

Connectivity	Two Gigabit Ethernet ports, integrated switch, Ethercon connectors
Supported topologies	Star, Daisy Chain
Remote interface	ArmoniaPlus

**Construction**

Dimensions	483 x 381 x 88.9 mm 19.0 x 15 x 3.5 in
Weight	11.5 Kg (25.4 lb)

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