Q1.5+

4-CHANNEL AMPLIFIER, 800 W INTO 2 ?, 1 RACK UNIT, COMPATIBLE WITH LO-Z LOADS AND 70/100 V DISTRIBUTED LINES.

Q1.5+

The Bias Q1.5+ offers the ideal balance between compact size, available power, and impeccable audio quality, positioning itself between the Q1+ and Q2+ within the Bias range. With a power output of 800 W per channel at 2 ?, this amplifier is perfect for driving loudspeakers such as the Air 8, Airten V3, and other compact full-range solutions.

Thanks to its lightweight and compact design in just 1 RU, the Q1.5+ is extremely versatile for both fixed and mobile installations, always ensuring precise and reliable sonic performance. Its highly efficient power supply, with microprocessor control and active Power Factor Correction (PFC), guarantees stable operation across all global mains voltages.

The patented Smart Rails Management™ (SRM) technology dynamically optimizes power consumption, while compatibility with both low-impedance loads (2 ?) and 70/100 V distributed lines makes it an ideal choice for hybrid systems. The DSP+ version also includes support for AES67 digital audio networking, expanding routing and system integration possibilities.

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70V-100V Line DSP

Fan Controlled by Processor

Wireless Control

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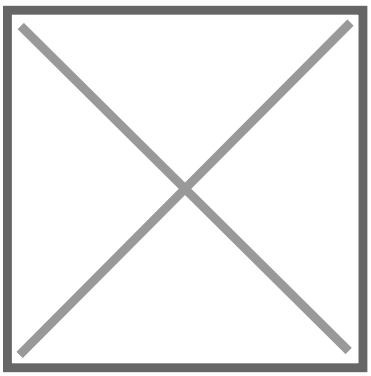
HIGHLIGHTS

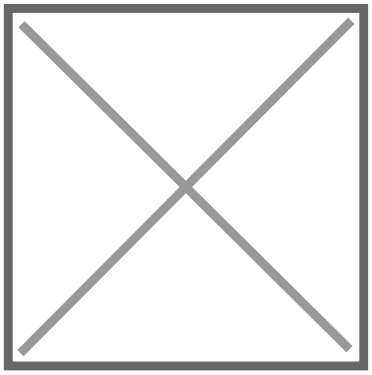


ADVANCED INTEGRATED DSP

The Bias Q1.5+ integrates an advanced hardware DSP designed to provide precise, secure and fully customizable audio management.
The DSP+ version expands functionality with native support for the AES67 standard, enabling audio routing over IP networks and integration into complex digital systems. Everything is manageable in real time via ArmoníaPlus, for complete control over filters, limiters, signal and diagnostics, even remotely.

VERSATILE APPLICATION, CONSISTENT PERFORMANCE

Designed to work with lo-Z (from 2 ?) and 70V/100V distributed lines, any mixed configuration of low and high impedance output loads is possible, making the Bias Q1.5 suitable for all applications in installed sound reinforcement systems.



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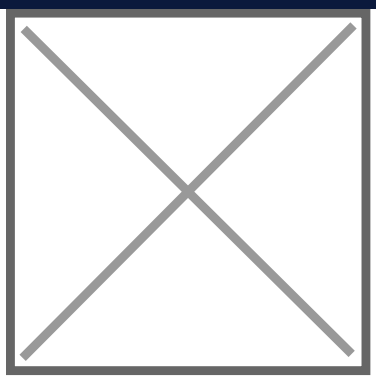
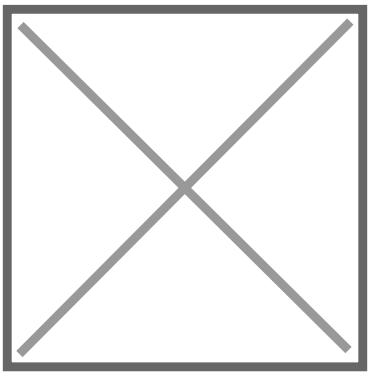


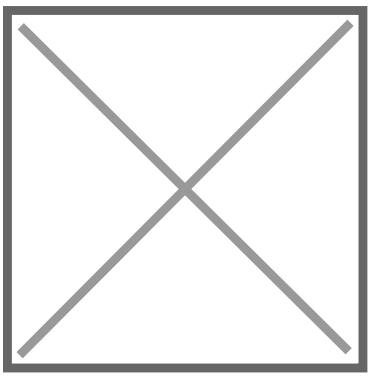
INTELLIGENT EFFICIENCY WITH SRM™ TECHNOLOGY

The Bias Q1.5+ incorporates Smart Rails Management™ technology, which adapts power draw in real time based on the load and audio signal. The result? Reduced power consumption, lower thermal dissipation, and maximum operating efficiency, even with UPS or limited power lines.

PFC (POWER FACTOR CORRECTION) FOR FLAWLESS WORLDWIDE OPERATION

Highly efficient, microprocessor-controlled power supply with built in PFC (Power Factor Correction) for flawless worldwide operation with any AC mains voltage in the range 85-275 VAC tolerant to peak up to 400 V





INTELLIGENT VARIABLE SPEED VENTILATION

Ventilation is controlled by internal temperature, with front-to-rear airflow for rack mounting.

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Q1.5+

4-CHANNEL AMPLIFIER, 800 W INTO 2 ?, 1 RACK UNIT, COMPATIBLE WITH LO-Z LOADS AND 70/100 V DISTRIBUTED LINES.

PRODUCT DETAILS

KEY FEATURES

- Smart SRM™ technology: dynamically manages power rails to maximize efficiency and minimize waste
- Universal power supply with high tolerance: highly efficient power section with integrated PFC, compatible with 85–275 V AC and tolerant to surges up to 400 V
- High-performance audio delivery: ensures stable and accurate sound reproduction, even under demanding load conditions
- Unmatched deployment flexibility: works seamlessly with both low-impedance (2 ?) loads and 70/100 V distributed lines, ideal for hybrid installations

SPECIFICATIONS

Number of channels	4
Power rating	600 watts per channel @ 8 ?, 600 watts per channel @ 4 ?, 800 watts per channel @ 2 ? | BRIDGE MODE
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 @ 44.1 kHz to 192 kHz 140 dB Dynamic Range - 0.0001 % THD+N
Internal precision	32 bit floating point
Latency	2.5 ms (fixed)
Preset Memory	128 MB (RAM) plus 512 MB flash for presets
Delay	2 s input + 100 ms output for time alignment
Equalizers	parametric IIR (peaking, hi/lo-shelving, band-pass, band-stop, all-pass, hi/lo-pass) | custom FIR | Raised-cosine

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4-CHANNEL AMPLIFIER, 800 W INTO 2 ?, 1 RACK UNIT, COMPATIBLE WITH LO-Z LOADS AND 70/100 V DISTRIBUTED LINES.

Crossover	FIR linear phase | Butterworth | Linkwitz-Riley | Bessel 6 to 48 dB/oct (IIR)
Limiter	TruePower™, RMS voltage, RMS current, Peak
Damping control	Active DampingControl™ and LiveImpedance™ measurement
Selectable gains	26 / 29 / 32 / 35 dB
Input sensitivity @ 8 ?	3.54 Vrms per 26dB / 2.51Vrms per 29dB / 1.78Vrms per 32dB / 1.26 Vrms per 35dB
Maximum input level	20 dBu
Frequency Response (±0.5 dB , 1 W @ 8 ?)	20 Hz - 20 kHz
Crosstalk (1 kHz)	Typical -70 dB
Signal-to-noise ratio (32 dB gain)	>108 dB(A)
Input impedance	20 k? balanced
THD+N (from 0.1 W to maximum power)	<0.1% (typical <0.05%)
DIM (from 0.1 W to Full Power)	< 0.05%
Slew rate	>50 V/µs (input filter bypassed)
Output channels	4x channels (Hi-Z or Lo-Z, bridgeable)
Analog inputs	4x Phoenix MC 1.5/12-ST-3.81
AES67 digital inputs	4 channels (1 x RJ45)
Output Connectors	Phoenix PC 5/8-STF1-7.62
Dimensions (W x H x D)	483mm x 44.5mm x 358mm
Weight	7.0 kg (15.4 lb)
Power Supply Type	Universal regulated switching with PFC and SRM
Rated voltage	100-240 V ±10%, 50-60 Hz
Power factor (above 500 W)	>0.95
AC Mains connector	IEC C20 (max 20 A) region-specific power cord provided

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