

Q1+

# 4-CHANNEL INSTALLATION AMPLIFIER, 300 W @ 8 Ω / 600 W BRIDGED, INTEGRATED DSP, AES67 NETWORKING, 70/100 V LINE COMPATIBLE

The Bias Q1+ is a 4-channel installation amplifier designed to offer energy efficiency, compactness, and high sound quality in a lightweight and flexible format. Delivering 300 W per channel at 8 Ω (up to 600 W in bridge mode), it's ideal for small to medium installations where performance and low consumption are key.

Equipped with an integrated DSP and managed via ArmoníaPlus software, the Q1+ provides FIR filters, advanced EQ, limiters, delay, and polarity control, all supported by Void-optimised presets. With 2.5 ms fixed latency and 32-bit floating point processing, it ensures accurate and transparent audio management.

Thanks to the SRM (Smart Rails Management) technology, the amplifier operates at peak efficiency in all load conditions, drastically reducing power consumption, thermal output, and environmental footprint. It supports Lo-Z (from 2 Ω) and 70/100 V distributed lines, even in mixed configurations.

Its 1U rack format, low weight, and standard Phoenix connectors make it ideal for AV installations, hospitality venues, retail environments, corporate spaces, and public buildings where performance and design matter equally.



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## HIGHLIGHTS



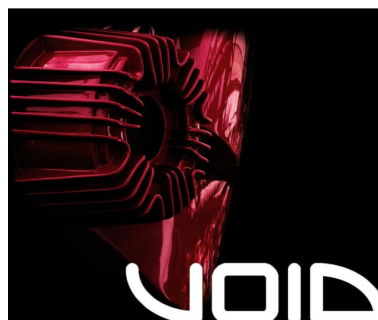
### ADVANCED INTEGRATED DSP

The Bias Q1+ integrates an advanced hardware DSP designed to provide precise, secure and fully customizable audio management. Compliant with the IEC 60849 standard, it ensures reliability even in critical applications.

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.

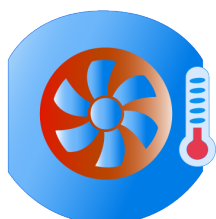
### VERSATILE APPLICATION, CONSISTENT PERFORMANCE

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



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Fan controlled by  
internal temperature

## **INTELLIGENT VARIABLE SPEED VENTILATION**

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

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## PRODUCT DETAILS

### KEY FEATURES

4-channel amplifier with 300 W per channel into 8 Ω, designed to provide reliable performance in compact spaces and with low power consumption.

Ultra-compact construction in 1U rack format, weighing only 7 kg, designed for discreet integration in fixed professional installations.

Presets optimized for Void speakers, ensuring maximum sound output and simplified integration into existing systems.

### SPECIFICATIONS

|                       |   |
|-----------------------|---|
| Number of channels    | 4   |
| Power rating          | 300 watts per channel @ 8 Ω, 300 watts per channel @ 4 Ω, 400 watts per channel @ 2 Ω   BRIDGE MODE |
| Ethernet standards    | auto-sensing Fast Ethernet (IEEE 802.3u, 100 Mbit/s)  |
| Supported topologies  | Star  |
| Remote Interface      | Armonía Pro Audio Suite™  |
| 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, 44.1-192 kHz, 140 dB, THD+N 0.0001%   |
| Internal precision    | 32 bits floating point  |
| Latency               | 2.5 ms (fixed)  |
| Preset Memory         | 128 MB RAM + 512 MB Flash   |

# Q1+ 4-CHANNEL INSTALLATION AMPLIFIER, 300 W @ 8 ? / 600 W BRIDGED, INTEGRATED DSP, AES67 NETWORKING, 70/100 V LINE COMPATIBLE

|   |   |
|---|---|
| <b>Delay</b>                                    | 2 s input + 100 ms output for time alignment  |
| <b>Equalizers</b>                               | parametric IIR (peaking, hi/lo-shelving, band-pass, band-stop, all-pass, hi/lo-pass)   custom FIR   Raised-cosine |
| <b>Crossover</b>                                | FIR linear phase   Butterworth   Linkwitz-Riley   Bessel 6 to 48 dB/oct (IIR)                                     |
| <b>Limiter</b>                                  | TruePower™, RMS voltage, RMS current, Peak  |
| <b>Damping Control</b>                          | Active DampingControl™ and LiveImpedance™   |
| <b>Selectable gains</b>                         | 26 / 29 / 32 / 35 dB  |
| <b>Input sensitivity @ 8 ?</b>                  | 2.48Vrms for 26dB / 1.76Vrms for 29dB / 1.24Vrms for 32dB / 0.88 Vrms for 35dB                                    |
| <b>Maximum input level</b>                      | 20 dBu  |
| <b>Frequency response (±0.5 dB , 1 W @ 8 ?)</b> | 20 Hz - 20 kHz  |
| <b>Crosstalk (1 kHz)</b>                        | Typical -70 dB  |
| <b>Signal-to-noise ratio (32 dB gain)</b>       | >104 dB(A)  |
| <b>Input impedance</b>                          | 20 k? balanced  |
| <b>THD+N (from 0.1 W to maximum power)</b>      | <0.1% (typical <0.05%)  |
| <b>Slew rate</b>                                | >50 V/μs (input filter bypassed)  |
| <b>Output channels</b>                          | 4x channels (Hi-Z or Lo-Z, bridgeable)  |
| <b>Analog inputs</b>                            | 4x Phoenix MC 1.5/12-ST-3.81  |
| <b>AES67 digital inputs</b>                     | 4 channels (1 x RJ45)   |
| <b>Output Connectors</b>                        | Phoenix PC 5/8-STF1-7.62  |
| <b>Dimensions (W x H x D)</b>                   | 483mm x 44.5mm x 358mm  |
| <b>Weight</b>                                   | 7.0 kg (15.4 lb)  |
| <b>Power Supply Type</b>                        | Universal regulated switching with PFC and SRM  |
| <b>Rated voltage</b>                            | 100-240 V ±10%, 50-60 Hz  |