

## Standalone, High Channel Count Preamplifier Board for Third-Party Analog-to-Digital Converters (ADCs)



- Protective housing with stand-offs for easy connection to third-party ADCs
- Customizable input and output connectors to match third-party probe and ADC connections
- Narrow housing design for fitting two side by side
- Compact 2 x 20 mm preamps per channel
- Heavy duty latch for locking preamp connection

**Channels**

**Channels per Preamp**

128

**Amplification** <sup>(1)</sup>

40 dB

**Input Impedance** <sup>(2)</sup>

39 kΩ

**Preamp**

**Output Impedance**

50 Ω

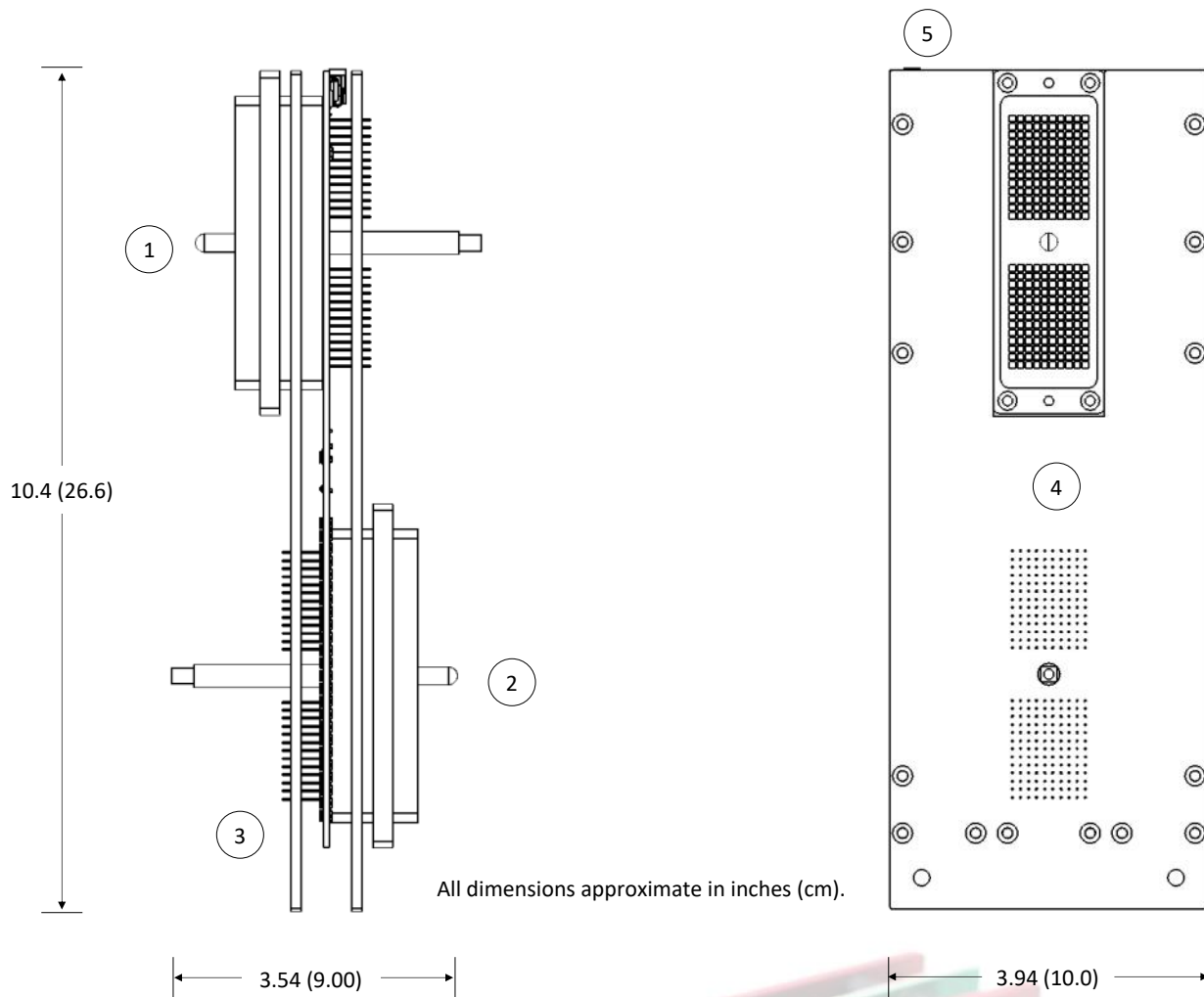
**Bandwidth @ -3 / -6 dB** <sup>(3)</sup>

40/25 kHz to 30/35 MHz

(1) Measured with 50Ω load. Actual gain will depend on the probe capacitance (typical channel gain mismatch < 1 dB). Crosstalk is ≤ -50 dB (might be higher with custom connector). In order to archive ≤ -50 dB crosstalk custom connector must have signal and ground pins altered per channel or in checkerboard order.

(2) HiZ is the best to minimize noise at high frequencies.

(3) Measured using signal generator and oscilloscope with 50Ω input.



1. Medical grade Cannon DL(M)-260 probe input connector with signal and ground pins for each channel to minimize crosstalk (pinout map available upon request). **Custom connectors and pin mapping to match existing third-party probes can be substituted in place of default connectors.**
2. Medical grade Cannon DL(M)-260 probe output connector with signal and ground pins for each channel to minimize crosstalk (pinout map available upon request). **Custom connectors and pin mapping to match existing third-party probes can be substituted in place of default connectors.**
3. Adjustable offsets provide uniform pressure across the housing and against ADC unit when connecting probes (removeable).
4. Durable housing protects AMP printed circuit board from unintended exposure.
5. 5VDC 0.5A (power supply included)

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LEGION AMP128 is classified EAR99 and does not require an export license.

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