



Wearable lightweight EEG amplifier



- ✓ Available with 8, 16 or 32 channels
- ✓ Outstanding signal quality
- ✓ Ultra-lightweight and compact
- ✓ Integrated accelerometer



EEG support

Up to 32 channels: configurable (1 to 32)

Available data: raw EEG and frequency band-separated data (delta, theta,...).

EEG signals

Sampling method: simultaneous sampling from all channels

Sampling rate: Up to 128 kSPS.

Resolution: 24 bits ADC

Dynamic range: 107 dB dynamic range at 32 kSPS

Amplification: Up to 8x programmable gain amplification

EEG sensors and Cap

Gel free electrodes for easy and fast setup

Electrode count: 34 recording electrodes

Sensor material: Coated Ag/AgCl electrodes

Conducting Medium: Saline (3.5% NaCl solution)

Size: 46-50cm, 50-54cm, 54-58cm, 58-62cm

Standard: International standard 10-20 electrode placement system

Motion sensors*

IMU: accelerometer support for basic movement tracking when head-mounted.

Accelerometer: 3-axis +/-8g

Magnetometer: 3-axis +/-112 gauss

* Software support for motion data coming soon

Connectivity

Proprietary USB receiver (included): 2.4GHz band

USB: Built in TTL for wired connections to PC.

Micro USB cable (included): for batteryless applications

Power

Battery: Internal Lithium Polymer battery 500mAh to 1800mAh (configurable)

Battery life: up to 9 hours

Other features

- SD card slot for offline data collection
- Non-EEG bio-signal acquisition and imaging: ECG, EKG, EMG, FNIRS, etc
- Separate USB ports isolate power and logic to meet safety standards
- Ultra-low-noise (<0.22 μ V measured)