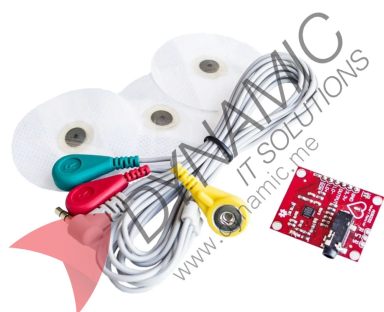


Heart Rate Sensor ECG Module AD8232



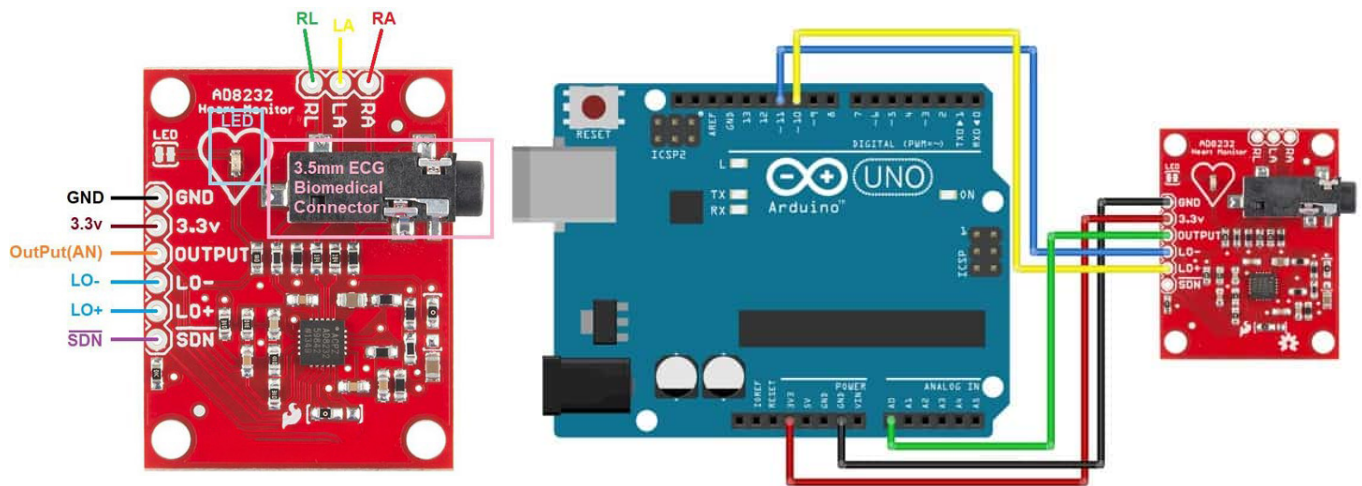
Features:

The AD8232 ECG Module integrates a high-performance analog front end specifically designed for biopotential signal acquisition. Using the AD8232 IC from Analog Devices, it extracts, amplifies, and filters weak heart signals to produce a clear ECG waveform. The module supports both two- and three-electrode configurations for flexibility across medical and research applications. Its built-in fast-restore function minimizes filter settling time, enabling rapid signal stabilization after lead reattachment. The module includes LO+ and LO- lead-off detection pins for monitoring electrode connection status and an SDN pin for low-power shutdown. It is ideal for fitness devices, health monitors, and educational biomedical experiments.

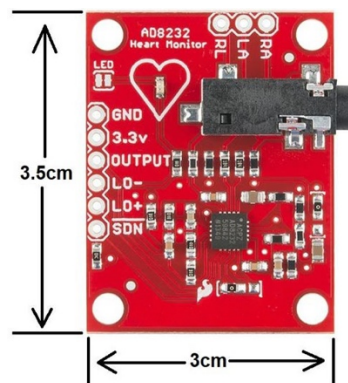
Specifications	
IC	Model AD8232 (Analog Devices)
Operating Voltage	2.0V to 3.5V (typical 3.3V)
Output Type	Analog ECG signal (ADC compatible)
Common-Mode Rejection Ratio (CMRR)	80dB (DC to 60Hz)
Electrode Configuration	2-lead or 3-lead
Fast Restore Feature	Enabled
Low Power Shutdown	Supported (SDN pin)
Lead-Off Detection	Pins LO+ and LO-
Output Connector	3.5mm ECG jack or pin header
Board Dimensions	3.5cm × 3cm
Operating Mode	Single-supply operation
Application	Fitness monitoring, ECG measurement, biomedical signal processing

Pinouts:

Pin Name	Type	Description
GND	Power	Power supply ground
3.3V	Power	Power supply input (3.3V)
OUTPUT	Signal	Analog ECG signal output (connect to ADC)
LO-	Signal	Lead-off detection for negative electrode
LO+	Signal	Lead-off detection for positive electrode
SDN	Control	Shutdown input (low = power down)
RA	Input	Right Arm electrode input (-IN)
LA	Input	Left Arm electrode input (+IN)
RL	Input	Right Leg electrode input (reference)
3.5mm Jack	Input	Combined RA, LA, RL electrode connector



Product Dimensions:



Product Pictures:

