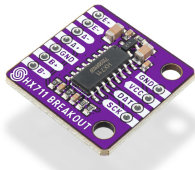


PRODUCT DATASHEET



Load-Cell Amplifier HX711 Board

333005

The HX711 Load Cell Amplifier Board offers 24-bit precision for accurate weight measurement, ideal for custom scales and electronics projects.

Full product documentation, files and tutorials: solde.red/333005

CORE ATTRIBUTES

SKU 333005

WEIGHT 5 g

DIMENSIONS 22.0 × 22.0 × 5.0 mm

BARCODE 732388675906

DESCRIPTION

Unlock high-precision weight and strain measurement in your next project with our **HX711 Load Cell Amplifier Board**. This breakout board features a 24-bit analog-to-digital converter (ADC) that can detect the changes in resistance from a load cell, providing you with accurate data. Whether you're building a custom digital scale, an industrial process control system, or a smart presence detector, this amplifier board is the perfect solution for translating minuscule forces into clear, digital signals for your microcontroller.

Our HX711 board simplifies the process of integrating load cells into your electronics projects. It's compatible with the four-wire Wheatstone bridge configuration found in most load cells, with labelled connection points for power (E+ and E-) and signal (A+ and A-). We've also made this board open-source, providing all the design documentation you need to customize it for your specific application. Plus, with our complimentary technical support, you can be confident that you'll have the help you need to get your project up and running.

Our Arduino library features a convenient way to calibrate the board, ensuring you can get measurements in units like kilos or pounds! The board operates on a 2.7V to 5.5V power supply and features a selectable 10SPS or 80SPS data rate via jumper, giving you the ability to choose between higher resolution or faster readings. Start your next weight-sensing project today with a reliable amplifier board that's backed by open-source principles and customer support.

TECHNICAL DETAILS

- **ADC Precision:** 24-bit
- **Amplification:** 128 for A channel, 64 for B channel
- **Voltage:** 2.7V - 5.5V
- **Current:** < 1.5mA
- **Reading speed:** 10SPS (fixed)

- **Dimensions:** 22 × 22 mm / 0.9 × 0.9 inch

SPECIFICATIONS

INTERFACE	Digital Gpio
QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes
MEASUREMENT TYPES	Weight
MEASUREMENT ACCURACY	24-bit ADC resolution
IC PART NUMBER	HX711
SUPPLY VOLTAGE MIN V	2.7
SUPPLY VOLTAGE MAX V	5.5
LOGIC LEVEL	3V3 Only
OPERATING CURRENT (mA)	1.5 mA
SLEEP CURRENT uA	1

LINKS

Arduino Library	https://github.com/SolderedElectronics/Soldered-HX711-ADC-For-Weight-Scales-Arduino-Library
Open Source Hardware Files	https://github.com/SolderedElectronics/Load-cell-ampfilier-HX711-board-hardware-design
Full Documentation	https://docs.soldered.com/hx711/overview/
Arduino: Get Started	https://docs.soldered.com/hx711/arduino/getting-started/
Hardware Details	https://docs.soldered.com/hx711/hardware/
Arduino Library Documentation	https://docs.soldered.com/hx711/arduino/simple-read/
Pinout	https://cms.soldered.com/products/333005/media/333005_pinout-png_8efd5e.svg

GALLERY

