



Gravity: Sensor Kit for Intel Joule

SKU:KIT0119



INTRODUCTION

Gravity Sensor Kit for Intel Joule is a plug & play electronics tool kit which gives inventors and IoT developers a quicker and easier experience of prototyping and productizing concepts with the Intel® Joule™ Module.

The Intel® Joule™ Module is a Linux-based SoM (System on a Module) which combines a 64-bit, Quad-Core compute engine with power management services, wireless connectivity, high speed I/O and Intel® RealSense™ compatibility powered by Intel® HD Graphics.

To make The Intel® Joule™ Module compatible with more modules and easier to use, we have included the Gravity expansion shield in the kit, which adds following supports to its original carrier board: analog input support, 3.3V / 5V switchable power voltage, standard extended connectors (DFRobot Gravity Series sensors and modules compatible).

14 well-chosen DFRobot Gravity electronic modules inside the package cover IoT scenarios including temperature sensing, motion detecting, gesturing recognizing, power control, etc.. With wireless connectivity supported by Intel® Joule™ Module, all the data is accessible from anywhere around the world.

NOTE: Joule compute module and expansion board are NOT included

Check sensors for arduino if you are interested in arduino, and check sensor kit to get more.

FEATURES

- Plug&play electronics toolkit for Intel® Joule™
- Powered by Intel® Joule™ , a 64-bit, Quad-Core compute module , featuring power management services, wireless connectivity , high speed I/O and Intel® RealSense™ compatibility
- 14 well-chosen DFRobot Gravity electronic modules with expansion shield; Supports 200+Gravity sensors and actuators
- High quality tool box with adjustable grids for neat storing

SPECIFICATION

- Gravity expansion shield:
- Digital I/O: 8
- PWM: 4
- Analog I/O: 8 (using onboard chip via I2C)
- SPI: 1 (with 3 chip select pins)
- I2C: 3
- UART: 3
- Power Output: 5V & 3.3V & 1.8V
- Gravity I2C: 1
- Gravity UART: 1
- Module Voltage: 5V or 3.3V
- Gravity Sensor Kit for Intel Joule:
- Dimension: 220mm * 165mm * 65 mm/ 86.6 * 65 * 25.6 inches

- Weight: 494g

SHIPPING LIST

- Gravity: IO Expansion Shield for Intel Joule x1
- Analog Ambient Light Sensor x1
- Digital Push Button x1
- Analog Rotation Sensor V2 x1
- Digital Buzzer Module x1
- LM35 Analog Linear Temperature Sensor x1
- Digital Red LED Light Module x1
- Relay Module x1
- 9g micro servo (1.6kg) x1
- Flame sensor x1
- Analog Capacitive Soil Moisture Sensor SEN0193 x1
- PIR(Motion)Sensor v1.0 x1
- Analog Sound Sensor x1
- Digital Capacitive Touch Sensor x1
- Triple Axis Accelerometer MMA7361 x1
- Flat Noodle Micro USB Cable 1.2M x1
- Gravity Digital&Analog Sensor Cable x14