Xadow Basic Sensors

SKU 101040006

Xadow Basic Sensors integrates three different sensors on one single board:
- 3-Axis Accelerometer for motion detection, activity monitoring and speed tracking
- Dual diode Digital Light Sensor that can separately measure infrared, full-spectrum or human-visible light
- Temperature Sensor for temperature monitoring

Features
- Three-in-one sensor board
- Plug-and-play if connected with RePhone Kit Create
- Open source and modular design
- Slim and small
- Built-in 11 PIN Xadow Connectors for full flexible connection with other Xadow Modules
- Stackable, chainable and sewable with other Xadow Modules

Technical Details

Dimensions	25.37mm x 17mm x 2mm
Weight	G.W 4g
Battery	Exclude
Microcontroller	STM32F030F4
Core	ARM® 32-bit Cortex® -M0 CPU
Power Supply	3.3 – 6 V (via breakout pins)
Flash	16 KB
SRAM	4 KB
Clock Speed	48 MHz
Operating Temperature Range	-30°C to 70°C
Interface	Interface with Xadow GSM+BLE through I2C (7-bit address 0x03)
3-Axis Accelerometer (ADXL345):	
Test Range	±2g (default), ±4g, ±8g, or ±16g
Resolution	Increase with g range, up to 13-bit resolution at ±16g

Digital Light Sensor (TSL2561)	
Dynamic Range (Lux)	0.1 to 40,000 Lux
Dual Photodiodes	Infrared and full spectrum
Temperature Sensor (LM75ADP)	
Temperature Range	-55°C to 125 °C
Accuracy	± 2°C from -25°C to 100°C; ± 3°C from -55°C to 125°C

Part List

Xadow Basic Sensors	1
FPC Cable	1

ECCN/HTS

ECCN	Not Available
HSCODE	9025900090

https://www.seeedstudio.com/Xadow-Basic-Sensors-p-2555.html/12-5-18