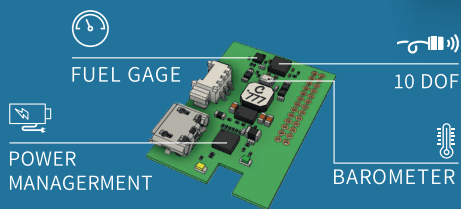


OriginIoT™ Add-ons

Click to fit

Application layers for the OriginIoT™



OriginGPS
more+mighty



9-Axis Motion Sensor

READY TO OPERATE WITH ORIGINSMART™

Low power state-of-the-art 3-axis accelerometer, 3-axis gyroscope and 3-axis magnetometer all on one I2C component.



Barometric Pressure/ Temperature Sensor

HIGHLY ACCURATE HEIGHT CONTROL

Ultra-low power temperature and pressure sensor on one I2C component.



Power Management

POWERING UP YOUR ORIGINIOT™

A highly efficient DC/DC buck-boost circuit designed for operation with lithium-ion cells.



Battery Charging

POWER PATH MANAGEMENT

Charge your battery from multiple types of power sources via a PicoBlade or Micro-USB connector.



OriginIoT™ Compatible

THE OPTIMAL MATE FOR YOUR ORIGINIOT™

Limited hardware efforts and sensor selecting required to develop complete IoT products.



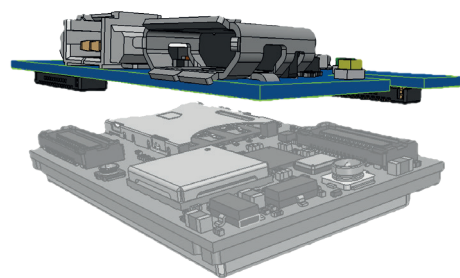
Low Stacking Height

6.41MM FOR AN ENTIRE IOT ASSEMBLY

Ideal for a wide range of compact IoT apps.

Quick as a click

OriginIoT™ add-ons are ready to use in a multitude of configurable options. Sensors connected to the add-ons further speed up development of IoT devices, making it simple and accessible.



Ready, Steady, Go!

Using the OriginIoT™ system with add-ons as a base for IoT devices is a 1, 2, 3 strategy:



Connect batteries and antennas



Design mechanical enclosure



Configure device behavior from any cloud

Mix and match
OriginIoT add-ons
or use your own

Wearables

Asset Tracking

Smart Cities

Sports

Fleet Management

Precision Agriculture

Law Enforcement

Pet / People Tracking

Industrial IoT

Part Number	Power Management Unit	Battery Charging Circuit	9 Axis Motion Sensor	Pressure Sensor
ORG2101-AD02-M	√	√	√	√

Sample sensor specifications	Sensor	Range	Sensitivity/Accuracy
	Accelerometer	±2g, ±4g, ±8g, ±16g	0.4mg to 0.06mg
	Gyroscope	±250 dps, ±500 dps, ±1000 dps, ±2000 dps	±0.007 dps, ±0.015 dps, ±0.03 dps, ±0.06 dps
	Magnetometer	±4900 μT	±0.15 μT
	Pressure	300-1100 hPa equiv. to +9000-(-)500 m	±0.12 hPa equiv. to ±1 m
DC/DC power management	Provides regulated voltage for the OriginIoT™ and sensors Up to 95% efficiency Analog-to-digital connection for battery status indication		
Battery charging IC	Integrated dynamic power path management functions simultaneously, and independently powers the system and charges the battery Supports up to 700 ma charge current with current monitoring output		
OriginSmart™	Configuration and control of all sensor features from cloud via I²C interface GPIOs for address control and interrupts		
Dimensions	Size: 27.6 x 18.8 mm Height: 3.40 - 5.26 mm (depending on connector assembly) Weight: 1.5 gr		
Operating temperature	-40°C to +85°C		