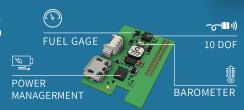
OriginIoT[™] Add-ons

Click to fit

Application layers for the OriginIoT™







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.



Low Stacking Height

6.41MM FOR AN ENTIRE IOT ASSEMBLY
Ideal for a wide range of compact IoT apps



Battery Charging

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

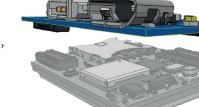


OriginIoT™Compatible

THE OPTIMAL MATE FOR YOUR ORIGINIOT™ Limited hardware efforts and sensor selecting required to develop complete IoT products.

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.



Mix and match OriginIoT add-ons or use your own

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



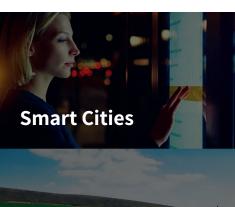
Design mechanical enclosure



Configure device behavior from any cloud







Precision Agriculture

Industrial IoT



TECHNICAL SPECIFICATIONS

Part Number	Power Management Unit	Battery Charging Circuit	9 Axis Motion Sensor	Pressure Sensor
ORG2101-AD02-M	\checkmark	\checkmark	\checkmark	$\sqrt{}$

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 μΤ	±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 I ² C 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				

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