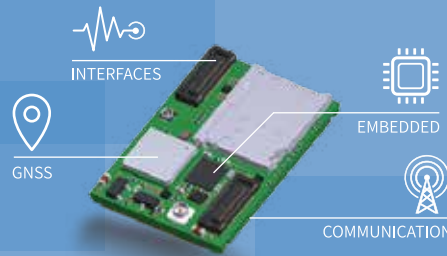


# OriginIoT™

Miniature Cellular IoT Systems



**Superb GPS / GNSS**  
 RF MATCHED OUT-OF-THE-BOX  
 Reduced risk of GNSS signal loss during prototyping, and multiple constellation support



**Cutting Edge Communication**  
 COMPATIBLE WITH LTE RELEASE 13  
 Select from 2G/3G GSM, LTE Cat 1, LTE Cat-M1, and LTE NB technologies



**No Embedded Coding**  
 ORIGINSMART™ SOFTWARE SUITE  
 Closed generic firmware allows you to develop your application from the convenience of the cloud



**Connect, Configure, GO.**  
 MULTIPLE SENSOR INTERFACES  
 I2C, UART, SPI, GPIO, USB enable you to add over 100 different sensors or peripheral devices



**World's Smallest Footprint**  
 27x18 MILLIMETER DIMENSIONS  
 Ideal for a range of compact IoT applications



**Ultra-Low Power Consumption**  
 CLOUD CONFIGURABLE POWER SETTINGS  
 Power saving and fast wake-up mechanisms with suspend and resume in ~1 second

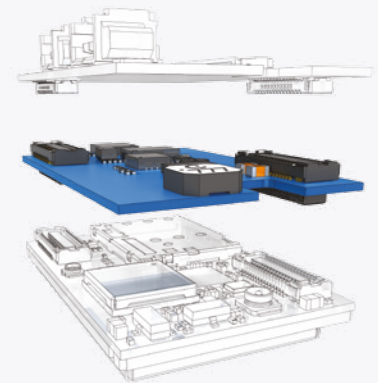
## Develop IoT products in 6 weeks

The combination of high quality GNSS, GSM/LTE communications with a wide variety of interfaces acts as a hardware platform to develop low power, high performance IoT devices.

Selecting OriginIoT™ as a basis for IoT product development simplifies the process:

- 1** Choose and add sensors
- 2** Design mechanical enclosure
- 3** Configure device behavior from the cloud

✚ CE, FCC and ROHS certified    ✚ Pre-certified with selected operators



Mix and match OriginIoT add-ons or use your own



Asset Tracking



Automotive



People /Pet Tracking



Wearables



Drones



Precise Agriculture

P/N	<b>ORG2101-XXXX-X</b> <small>1 2 3</small>					
	<p><b>1</b> Communication technology: 2G=2G GSM, 3G=3G GSM, C1= LTE Cat1, CM= LTE Cat M, NB= LTE Cat NB1</p> <p><b>2</b> Region: EA=EMEA/APAC, GL=Global, US=North America, JP=Japan, CH=China</p> <p><b>3</b> SIM functionality: T=Traditional SIM card holder / E=Embedded SIM</p>					
Cellular communication matrix	Technology	2G	3G	Cat 1	Cat M	Cat NB
	Available regions	EMEA/APAC or Global	EMEA/APAC or US	US or Japan	US or Global	EMEA or China
	Cellular approvals	All European MNOs	All European MNOs T-mobile USA	Verizon USA NTT DoCoMo	Verizon USA	TBD
	Frequency bands	2G quad band or 2G dual band	3G 1, 8 & 2G dual band or 3G 2, 5 & 2G dual band	LTE 4, 13 or LTE 1, 18, 19	LTE 2, 4, 12 or LTE 2, 4, 12, 13 or Multiband LTE	LTE 3, 8, 20
	Max. data rate DL/UL	85.6/85.6 Kbps	7.2/5.7 Mbps	10.3/5.2 Mbps	300/375 Kbps	50/50 Kbps
	Gemalto security	√	√	√	√	√
OriginGPS GNSS	<p>Frequency Bands: GPS+GLO, QZSS</p> <p>Sensitivity: -165dBm</p> <p>Accuracy: &lt; 1.5m</p> <p>TTF (hot start): &lt; 1sec</p> <p>A-GPS</p>					
External interfaces	2wLPUART, 2wUART, I2C, GPIO x 12, ADC/DAC, USB 2.0 OTG, SPI					
OriginSmart™	<p>Configuration and control of device features from the cloud</p> <p>FOTA upgrades</p> <p>Connectivity Management, Device Management, Application Enablement</p>					
Hardware	<p>Dimensions: 27.6 x 18.8 mm</p> <p>Height: 4.15 mm</p> <p>Weight: 4.5 gr</p> <p>Supply voltage range: 3.3 - 4.5 V</p> <p>Power consumption: based on cellular technology in use</p>					
Approvals	<p>FCC, CE, RoHS</p> <p>Additional approvals per customer requirement</p>					
Operating temperature	-40°C to +85°C					

**OriginIoT™ systems** enable developers to develop IoT products without writing a single line of embedded code and without RF engineering knowhow. A new rapid product cycle is created, dramatically cutting development resources.

**OriginGPS** develops fully-integrated, miniaturized GPS/GNSS, and IoT solutions. For over a decade, our experts have been developing ultra-sensitive, reliable, high performance modules with the smallest footprint on the market, supporting a range of verticals, such as wearables, drones, asset tracking, smart cities, automotive and homeland security. [iot@origingps.com](mailto:iot@origingps.com) | [www.OriginGPS.com](http://www.OriginGPS.com)