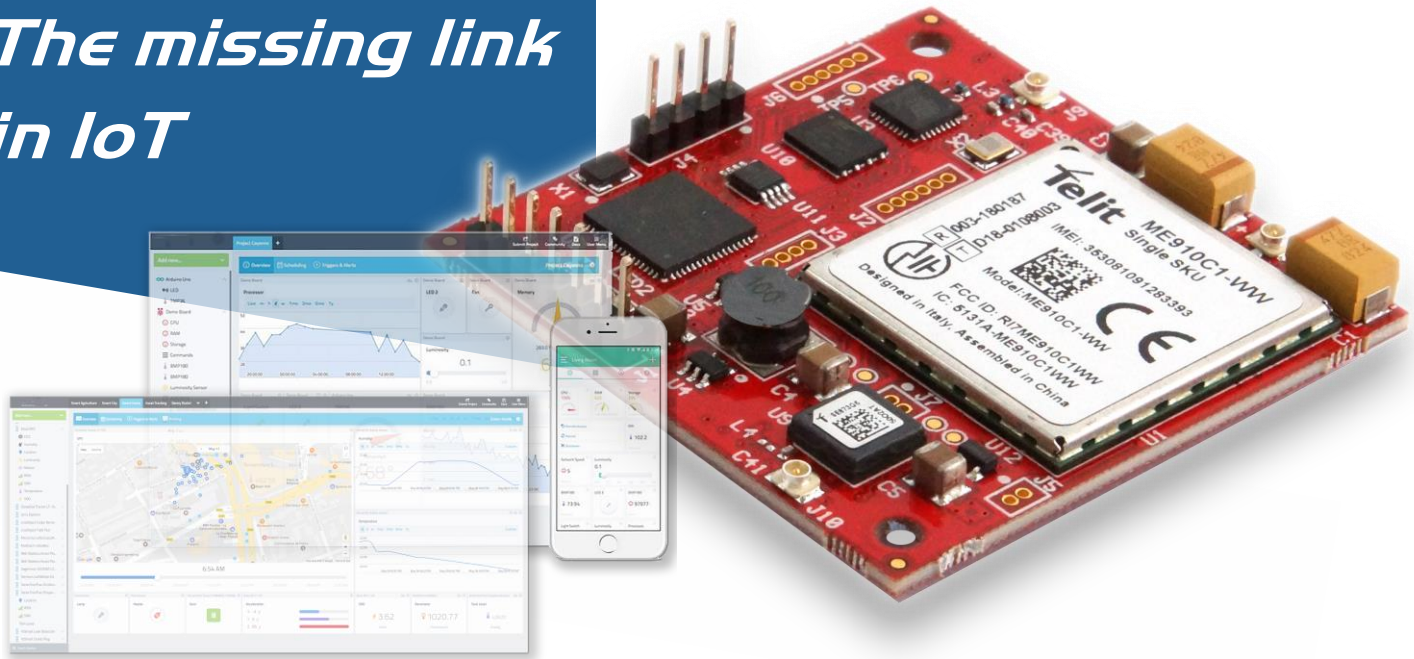


# *i-Cell*

## *Communicator*

### *The missing link in IoT*



## • **Global IoT communication platform**

- Connect your information via the cloud from low rate ultra low power to video streams with i-Cell Communicator, the swiss army knife of IoT.
  - Cellular Comms: 4G Cat1/4 or 4G LTE-M, NBIoT, 2G.
  - WiFi 2.4GHz ad-hoc, infrastructure and access point modes supported.
  - GNSS Class leading precision and high (>10Hz) position updates.
  - Serial and USB interfaces for sensors and data i/o.
  - Global coverage nano sim or eSim.
  - eUICC & iUICC capability ensures no interruption of data, as can happen with roaming sims.
  - Multifunction portal and api for sending and receiving device data, data views and analysis - browser or app based.
  - Highly configurable.
  - Smart resilient SIM support
  - Low power
  - FOTA support
-

The i-Cell OEM LTE / WiFi / GNSS communicator supports worldwide LTE category Cat 1/4 or M1/NB1 (NBIoT) communications as well as providing legacy 2G quad band support.

It features a maximum downlink and uplink data rate of over 50Mbps in LTE Cat4, 300kbps in LTE-M1.

This next generation product supports all the new features specified by 3GPP to boost IoT applications, such as Power Saving Mode (PSM) and extended Discontinuous Reception (eDRX), which along with proprietary firmware from Wireless Innovation allows the modem to wake up periodically to deliver data and then go back to sleep, providing ultra low power consumption for long term battery applications.

## Brief Specification:

### Cellular:

**4GBands(MHz)** B1(2100), B2(1900), B3(1800), B4(AWS1700), B5(850), B8(900), B12(700), B13(700), B18(800), B19(800), B20(800), B26(850), B28(700)

**2GBands(MHz)** B2(1900), B3(1800), B5(850), B8(900)

**Communication Approvals** IPv4/IPv6 stack with TCP and UDP protocol, SMS where applicable  
All major networks

### GNSS:

**Technology** GPS, GLONASS, Galileo, BeiDou

**Sensitivity** Better than -165 dBm tracking, AGPS support.

**TTFF** 35s cold start, 1s hot start

**Update** 1Hz – 10Hz

### WiFi:

**Bands** IEEE 802.11 b/g/n Wi-Fi 2.4GHz

**Modes** STA / AP

**Authentication** WEP or WPA/WPA2 authentication, or open networks

### General:

**Power** 5 – 24V DC via embedded interface

**Interface** TTL serial and USB2.

**Control** 'AT' compatible commands and proprietary protocols

**Configuration** Local and remotely via browser and app

**Updates** FOTA compatible.

**Weight** 90g

**Operating conditions** -30 to +75°C operating; -40 to +85°C storage. Humidity 0-95% non-condensing

**CE Certification** RED, EMC, LVD and all applicable standards



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