

Production Information:

i-Cell Communicator

The missing link in IoT



The i-Cell OEM LTE / WiFi / GNSS communicator supports worldwide LTE category Cat 1/4 or M1/NB1 (NB-IoT) 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.

Key features of the i-Cell Communicator



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, NB-IoT, 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. applications



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



Specifications

4G Bands (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)
2G Bands (MHz)	B2(1900), B3(1800), B5(850), B8(900)
Communication	IPv4/IPv6 stack with TCP and UDP protocol, SMS where applicable
Approvals	All major networks
GNSS: Technology	GPS, GLONASS, Galileo, BeiDou
Sensitivity	Better than -165 dBm tracking, AGPS support.
TIFF	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

