

Production Information:

i-Cell D-Sub 2G/LTE

The iCell D-Sub LTE modem supports worldwide LTE category M1/NB1 (NB-IoT) communications as well as providing legacy 2G quad band support. It features a maximum downlink and uplink data rate of approx 300kbps.

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 Ground Control 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 iCell D-Sub 2G/LTE



External & eSIM options

eUICC & iUICC capability



Supports 2G, LTE-M and NB-IoT

Smart resilient SIM support



Remote configuration and status via app or browser



Low power for critical metering applications



True RS232 interface

External (5-24V DC) or interface power



FOTA support

Internal antenna option



Industry standard 25 way D-type socket interface



Compact and cost effective



The i-Cell range of cellular communication products are ideal for utility, IoT, retail and many other applications because it is so compact and cost effective. Using a standard RS232/V24 interface with power feed, or external PSU, makes this new model simple to use and flexible. Advanced power management allows for use with most legacy and metering hosts. A suitable antenna can be fixed via the flying lead or mounted remotely via an extension cable if required. Its small size and light weight means it needs no additional fixing and will fit under most metering terminal covers.

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)
Approvals	All major networks
LTE M1 Speed	Uplink up to 375 kbps Downlink up to 300 kbps
LTE NB1 (NBIoT Speed)	Uplink up to 62.5 kbps Downlink up to 21 kbps
EGPRS (2G Fallback)	Uplink up to 236 kbps Downlink up to 296 kbps
3GPP release 13 compliant	3GPP Rel. 12 Power Saving Mode (PSM) 3GPP Rel. 12 Power Saving Mode (PSM) 3GPP Rel. 13 Extended Discontinuous Reception (eDRX) 3GPP Rel. 13 Extended coverage
Power	5V – 24V DC Standby power 20mW Ultra low power cyclic sleep mode for long term battery powered applications. Can be powered by Lithium-ion cell (nominal 3.7 - 3.8V)
Communication	IPv4/IPv6 stack with TCP and UDP protocol, SMS where applicable
Interface	Industry standard 25 way D-Sub socket, V24 RXD, TXD, DCD, DTR, RTS, CTS, RI and DSR
Control	'AT' compatible commands and proprietary protocols
Configuration	Local via serial port, remotely via browser and app
Updates	FOTA compatible
Enclosure	Custom moulded fire resistant ABS housing, size - 20x60x56mm.
Weight	50g
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

