

i-Cell *D-Sub* *2G/LTE*



Advanced Cellular Communications with eUICC & iUICC capability

- 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 fitted via the flying lead or mounted remotely via an extension cable if required. It's small size and light weight means it needs no additional fixing and will fit under most metering terminal covers.

The i-Cell D-Sub LTE modem supports worldwide LTE category M1/NB1 (NB1oT) 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 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.

Specification:

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 (NB1oT 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 Interface Control Configuration Updates Enclosure Weight Operating conditions CE Certification	IPv4/IPv6 stack with TCP and UDP protocol, SMS where applicable Industry standard 25 way D-Sub socket, V24 RXD, TXD, DCD, DTR, RTS, CTS, RI and DSR 'AT' compatible commands and proprietary protocols Local via serial port, remotely via browser and app FOTA compatible Custom moulded fire resistant ABS housing, size - 20x60x56mm. 50g -30 to +75°C operating; -40 to +85°C storage. Humidity 0-95% non-condensing RED, EMC, LVD and all applicable standards

