

i-Cell - 1140 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
- Elster A1140 and A1120 dedicated meter interface
- Fully powered from meter interface
- FOTA support
- External and internal antenna, auto diversity.

The iCell1140 is designed to fit the standard Elster A1140 meter range, and interfaces with the proprietary interface via an RJ12 connector.

It clips into place conveniently under the A1140 series terminal covers.

A suitable antenna can be fitted via the flying lead or mounted remotely via an extension cable if required, to complement the internal antenna. Both internal and external antennas work together to provide signal diversity.

The i-Cell 1140 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 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:

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)
Approvals	All major networks
LTEM1speed	Uplink up to 375 kbps Downlink up to 300 kbps
LTENB1 (NB-IoT 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
3GPPrelease 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	Fully powered by Elster proprietary interface. Standby power 20mW
Communication Interface	IPv4/IPv6 stack with TCP and UDP protocol, SMS where applicable Elster proprietary meter interface.
Control Configuration	'AT' compatible commands and proprietary protocols Local via metering port, remotely via browser and app
Updates	FOTA compatible
Enclosure	Custom moulded fire resistant ABS housing, clips to meter supports.
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

