# i-Cell - 1140 2G/LTE

The i-Cell 1140 LTE modem supports worldwide LTE category M1/NB1 (NBIoT) 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 i-Cell - 1140 2G/LTE

- External & eSIM options
- eUICC & iUICC capability
- Supports 2G, LTE-M and NBIoT
- 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.

# Specifications

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|---|---|
| 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<br>Downlink up to 300 kbps |
| LTE NB1 (NBIoT Speed) | Uplink up to 62.5 kbps<br>Downlink up to 21 kbps |
| EGPRS (2G Fallback) | Uplink up to 236 kbps<br>Downlink up to 296 kbps |
| 3GPP release 13 compliant | 3GPP Rel. 12 Power Saving Mode (PSM)<br>3GPP Rel. 12 Power Saving Mode (PSM)<br>3GPP Rel. 13 Extended Discontinuous Reception (eDRX)<br>3GPP Rel. 13 Extended coverage |
| Power | Fully powered by Elster proprietary interface.<br>Standby power 20mW |
| Communication | IPv4/IPv6 stack with TCP and UDP protocol, SMS where applicable |
| Interface | Elster proprietary meter interface. |
| Control | 'AT' compatible commands and proprietary protocols |
| Configuration | 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.<br>Humidity 0-95% non-condensing |
| CE Certification | RED, EMC, LVD and all applicable standards |