

i-Cell Elster 1140 2G/4G

Purpose-built cellular connectivity for Elster electricity meters



i-Cell Elster 1140 provides remotely managed cellular connectivity for Elster A1140 and A1120 electricity meters.

Designed to fit beneath the A1140 series terminal cover, it connects directly through the dedicated meter interface and draws its power from the meter. Support for 4G Cat 1 bis, LTE-M, NB-IoT and legacy 2G helps maintain connectivity as mobile networks evolve.

Flexible SIM options, remote provisioning, internal and external antennas and firmware updates over the air make i-Cell Elster 1140 suitable for long term remote metering deployments where reliability and reduced site visits are essential.

KEY FEATURES

Multi-generation cellular connectivity

Supports 4G Cat 1 bis, LTE-M, NB-IoT and legacy quad-band 2G communications.

Purpose-built Elster integration

Designed for Elster A1140 and A1120 meters, fitting conveniently beneath the A1140 series terminal cover.

Powered directly by the meter

Draws power through the dedicated meter interface, removing the need for a separate device power supply.

Flexible SIM options

Supports external SIM and eSIM options, with eUICC and iUICC capabilities for remotely provisioned connectivity.

Remote monitoring and provisioning

View connectivity status and manage supported services remotely through a browser-based platform.

Internal and external antennas

Combines an internal antenna with an external antenna option to support installations in challenging signal environments.

Low power operation

Supports Power Saving Mode and extended Discontinuous Reception for energy-conscious metering applications.

Firmware updates over the air

Deploy supported firmware updates remotely, reducing the need for physical access to installed meters.



TECHNICAL CHARACTERISTICS

METER INTEGRATION

Compatible Meters	Elster A1140 and A1120
Installation	Fits beneath the A1140 series terminal cover and clips directly to the meter supports
Meter Interface	Elster proprietary interface via RJ12 connector
Power Input	Fully powered through the meter interface
Enclosure	Custom-moulded, fire-resistant ABS housing

CELLULAR CONNECTIVITY

Supported Technologies	4G Cat 1 bis, LTE-M, NB-IoT and quad-band 2G
LTE Bands	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26 and B28
2G Bands	B2, B3, B5 and B8
LTE-M Speed	Uplink up to 375 kbps; downlink up to 300 kbps
NB-IoT Speed	Uplink up to 62.5 kbps; downlink up to 21 kbps
2G Speed	Uplink up to 236 kbps; downlink up to 296 kbps
IP Support	IPv4 and IPv6
Transport Protocols	TCP and UDP
Additional Messaging	SMS, where supported

SIM, ANTENNA AND MANAGEMENT

SIM Options	External SIM and eSIM options, with eUICC and iUICC capability
Antenna Options	Integrated internal antenna and external antenna connection
Antenna Operation	Automatic diversity between internal and external antennas
Local Configuration	Through the metering port
Remote Configuration	Via browser or app
Control	AT-compatible commands and proprietary protocols
Remote Updates	Firmware over the air

PHYSICAL, ENVIRONMENTAL AND COMPLIANCE

Standby Power	20 mW
Power-Saving Features	Power Saving Mode and extended Discontinuous Reception
Weight	90 g / 3.17 oz
Operating Temperature	-30°C to +75°C / -22°F to +167°F
Storage Temperature	-40°C to +85°C / -40°F to +185°F
Operating Humidity	0-95% relative humidity, non-condensing
Compliance	RED, EMC, LVD and applicable standards
Product Code	P003-4G-A1140