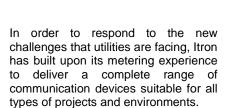


Sparklet 3G Modem

Commercial & Industrial

Communication technology is evolving rapidly with very short innovation cycles, thus the importance of making the right technical choice that ensures flexibility and adaptability of the chosen solution to secure the long term investment of meters.

The Sparklet modem is dedicated to large-scale industrial and commercial applications, where easy installation and optimized cost are key



Today the energy market requires ontime access to all metering information for a broad range of Smart Grid applications dedicated to monitoring and securing the network and the revenue; billing, load forecasting, renewable energy integration and energy management.

Managing the meter communication has become a vital part of the utilities' business process today and effective meter communication management will enable utilities to develop end-user services and energy demand management.

SPARKLET 3G

The Sparklet 3G modem is dedicated to large-scale industrial and commercial applications, where easy installation and optimized cost are key.

Extremely compact, the ACE Sparklet can be fully integrated under the terminal cover of the meter ensuring a fully secured solution, diminishing the risk of external fraud.

Thanks to the compact size and the light weight, it is just snapped into dedicated fixing points located in the terminal cover. No screws are needed.

The electrical link to the meter is facilitated by a single cable equipped with RJ45 jacks. This cable is used for



data exchanges and to power on the modem.

By using the meter's power supply, this modem is ideal for installation in harsh environments but can be powered externally if required (factory version).

The Sparklet modem is optionally able to manage the last gasp (alerts) when an outage occurs.

This modem has been designed by following the meter requirements. Firmware and configuration files are upgradable locally or remotely. By default, the manufacturing settings are coherent with those of the meter in such a way that it speeds up the installation process and commissioning.



	FEATURES
HARDWARE	
Meter interface	RS-232 or RS-485 variant, both via isolated RJ45 connector
SIM cards	Compatible 1,8V / 3V
Installation	Under meter terminal cover or on DIN rails
IP protection	IP20
DC power	10VDC, 100mA to 500mA source via RJ45 connector
Last Gasp battery	Optional: Factory fitted or user-installed via a user-replaceable NiMh battery
LEDs	3 (Power, GSM signal strength, connection status)
Cellular	
3G	2-bands 900/2100MHz (Gemalto EHS5-E) 2-bands 850/1900 MHz (Gemalto EHS5-US)
2G fall back	✓
Download / upload	HSDPA Cat.8 / HSUPA Cat 6: 7.2Mbps DL / 5.76Mbps UL
data rates	GPRS Class 12: max. 85.6kbps DL / max 85.6kbps UL
Antennas	external cellular antenna via SMA connector
GENERAL	Dalvasaharrata
Housing Dimensions without	Polycarbonate
connectors	101 x 87.5 x 29.5mm
Weight	TBA
Temperature range	Operating range: 20 °C to + 60 °C Extended range of operation: - 30 °C to + 70 °C Imit range of storage and transport: - 40 °C to + 60 °C
CERTIFICATIONS AND APPROVALS	
Regulatory	CE, RED (2014/53/UE), RoHS (2015/863/UE)
ORDERING INFORMATION	
Device part number	ITESPARKLETG5IBAR3: RS485 with battery ITESPARKLETG5INBR3: RS485 without battery ITESPARKLETG2IBAR3: RS232 with battery ITESPARKLETG2INBR3: RS232 without battery





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