



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

In order to respond to the new challenges that utilities are facing, Itron has built upon its metering experience to deliver a complete range of communication devices suitable for all types of projects and environments.

Today the energy market requires on-time 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.



Technical Specifications

| 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 data rates | HSDPA Cat.8 / HSUPA Cat 6 : 7.2Mbps DL / 5.76Mbps UL GPRS Class 12: max. 85.6kbps DL / max 85.6kbps UL |
| Antennas | external cellular antenna via SMA connector |
| GENERAL | |
| Housing | Polycarbonate |
| Dimensions without 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 limit 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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