DATASHEET

FINCH

LTE/4G IoT Plug-In Module designed for Kamstrup electrical meters.

Features and Benefits

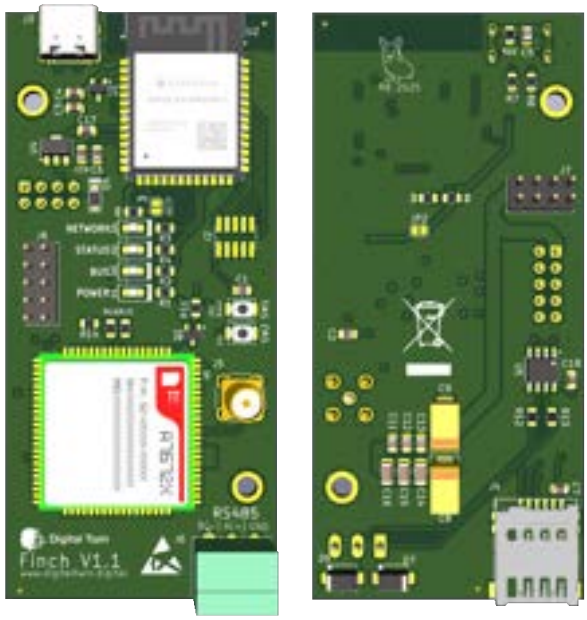
- 1 x RS485 Port
- LTE/4G Modem
- 1 x TTL UART Communication Port
- Wi-Fi
- BLE
- MQTT Bridge Mode
- TCP M2M Mode
- USB-C for Local Configuration
- Modbus RTU
- DLMS
- MQTT
- Location Via Cell Tower (CLBS)
- Automatic Kamstrup Configuration
- Offline Data Caching

Technical Overview

The Finch is a compact LTE/4G IoT plug-in module engineered specifically for Kamstrup electrical meters, offering robust, cellular-based communication for metering applications.

Designed for scalable deployments, the Finch supports connectivity to multiple electrical meters and can also interface with M-Bus gateways, enabling seamless integration in complex energy monitoring infrastructures.

The device further enhances deployment flexibility with TCP M2M Mode, allowing secure transferring of serial communications and seamless RS485 and UART integration over TCP/IP for SCADA and industrial monitoring platforms.



Technical Overview

The Finch offers a unique MQTT Bridge Mode, that allows a user to remotely connect to the communication ports on the device via a secure MQTT connection as a virtual COM-port on any Windows PC.

It is built for reliable, high-speed data transmission and leverages LTE/4G cellular networks to deliver secure, real-time communication. It features Automatic Kamstrup Configuration, which automatically generates device configurations for all connected meters, enabling the reading of predefined electrical measurement points.

The Finch also features offline caching capabilities, which caches DLMS and MODBUS readings locally when network connectivity is unavailable. Once connectivity is restored, all cached data is automatically transmitted. Supports storage of up to 200 offline messages.

Specifications

Power Supply	4.2V Received Directly from the Electrical Meter
Communication	LTE • CAT1 B1/B3/B8 Bluetooth V4.2 (BLE) • 2.4GHz - 2.4835GHz Wi-Fi • 802.11 b/g/n • 2.4GHz - 2.4835GHz
Serial Port	1 x TTL UART 1 x ¼ Load Chipset (RS485)
Protocols	Modbus RTU • 100 Points (Device config counts as one point) DLMS • 10 Devices • 45 Points Max per device

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