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DATASHEET

FINCH

LTE/4G IoT communication solution available as a plug-in module or standalone gateway for electrical metering and industrial applications.

Features and Benefits

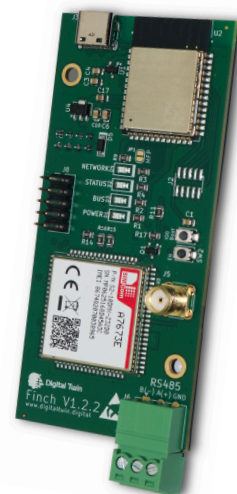
- 1 x RS485 Port
- LTE/4G Modem
- 1 x TTL UART Communication Port (Finch Only)
- Wi-Fi & BLE
- MQTT Bridge Mode
- TCP M2M Mode
- USB-C for Local Configuration
- Modbus RTU
- DLMS & MQTT
- Location Via Cell Tower (CLBS)
- Automatic Kamstrup Configuration
- Offline Data Caching

Technical Overview

The Finch is a compact LTE/4G IoT plug-in module specifically for Kamstrup electrical meters, while the Zebra Finch provides the same core functionality in a standalone enclosure for distributed building services and industrial applications, delivering robust cellular-based communication for metering and remote monitoring.

Designed for scalable deployments, both devices support connectivity to multiple electrical meters and can also interface with M-Bus gateways, enabling seamless integration into complex energy monitoring infrastructures.

The devices enhance deployment flexibility with TCP M2M Mode, allowing secure serial data transport over TCP/IP for SCADA and industrial monitoring platforms. Both devices support RS485 communications, while the Finch additionally provides a TTL UART communication interface.



Technical Overview

The Finch and Zebra Finch offer 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.

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

Both devices also feature 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	Finch: 4.2V Received Directly from the Electrical Meter Zebra Finch: External 12-24V AC/DC Power Supply
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	Finch: 1 x TTL UART 1 x ¼ Load Chipset (RS485) Zebra Finch: 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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