

Template:AWSFMC130



Contents

- [1 Document Information](#)
 - [1.1 Glossary](#)
 - [1.2 Revision History \(Version, Date, Description of change\)](#)
- [2 Overview](#)
- [3 Hardware Description](#)
 - [3.1 DataSheet](#)
 - [3.2 Standard Kit Contents](#)
 - [3.3 User Provided Items](#)
- [4 Set up your Development Environment](#)
 - [4.1 Tools Installation \(IDEs, Toolchains, SDKs\)](#)
 - [4.2 Other software required to develop and debug applications for the device](#)
- [5 Set up your hardware](#)

Document Information

Glossary

- FMB1YX (tracker) – GNSS tracking device manufactured by Teltonika Telematics.
- Wiki – Teltonika IoT knowledge base - [Teltonika Wiki](#).
- FOTA – Firmware Over The Air.
- Configurator – Tool to configure Teltonika Telematics devices.
- Crowd support forum – knowledge base dedicated for Troubleshooting.

Revision History (Version, Date, Description of change)

Version	Date	Description
v1.5	2023.02.14	Links updated
v1.4	2022.12.19	Minor information update
v1.3	2022.11.29	Page created

Overview

FMC130 is a small ADVANCED series device with 4G (LTE Cat 1) network coverage including 3G (UMTS), 2G (GSM) fallback compatibility. It comes equipped with internal GNSS, LTE antennas, configurable digital/analog/negative and impulse inputs, three DOUT outputs, Bluetooth connectivity, and backup battery.

FMC130 developed on the existing Teltonika FMB platform, therefore it keeps all of the

functionalities from FMB130 and builds on top of them with its industry-leading connectivity coverage.

For starters, FMC130 features negative input which allows you to save precious integration time while connecting accessories like vehicle doors sensor, alarm buttons, seatbelt detection, and other similar sensors or accessories.

Additionally, the device has an integrated possibility to enable Impulse Input for precise fuel flow meter data reading. Impulse based fuel usage monitoring is much more accurate than a different type of fuel metering sensors and it makes the FMC130 a perfect solution for high fuel usage machines like cranes, construction vehicles, mining machines, agriculture equipment.

Programmable inputs, 3 different configurable DOUT scenarios (immobilizer, buzzer, alarm lights, door lock and other scenarios) together with 4G (LTE Cat 1) compatibility including the 3G (UMTS) and 2G (GSM) fallback compatibility make this one of our most flexible devices ever.

Currently for MQTT solution evaluation firmware is required to be used - 03.27.10.Rev.520. For firmware supporting MQTT please contact your sales manager or contact directly via Teltonika Helpdesk.

Changes in firmware versions and update information can be found in device wiki page: [FMB1YX firmware errata](#)

Hardware Description

DataSheet

FMB1YX device data sheet can be downloaded here: [DataSheet](#)

Standard Kit Contents

STANDARD PACKAGE CONTAINS

- 10 pcs. of FMB1YX trackers
- 10 pcs. of Input/output power supply cables (0.9 m)
- Packaging box with Teltonika branding

Teltonika suggest standard order codes for the device purchase, by contacting us, we can create special order code which would fulfill user needs.

More ordering information at: [Ordering](#)

User Provided Items

- Power supply (10-30V).
- MicroUSB to USB A cable.

Set up your Development Environment

Tools Installation (IDEs, Toolchains, SDKs)

FMB1YX comes with our created firmware, therefore no additional development or scripting is

required for this unit to support AWS IoT. Only by using Teltonika Configurator [FM Configurator versions](#), connection point of AWS IoT server is required.

Other software required to develop and debug applications for the device

For debugging situations, device internal logs can be downloaded OTA by using our [FotaWEB](#) platform or by using Teltonika Configurator.

Set up your hardware

All details about FMB1YX can be located in our dedicated wiki page [FMB1YX Wiki](#)

- Basic device startup instructions provided in [FMB1YX First Start](#).
- Device characteristics, power supply information: [FMB1YX General description](#)
- FMB1YX firmware change can be performed via [FotaWEB](#) (direct buyer gets access to this platform) or via device [Configurator](#)
- Device LED information: [FMB1YX LED Status](#)
- USB driver download, datasheet and quick start guide downloads: [FMB1YX Downloads](#)