

Features

- Long range
- Reads up to 150 tags per second
- Built-in antennas
- Bluetooth™ v2 Class 1 for up to 500 metres range
- Battery driven
- Robust air protocol
- Works in the licence free ISM band.
- Low output power for minimised interference
- Belt with clip included

Applications

- Fast stock check
- Pick-to-light applications
- Sensor monitoring, e.g. collection of temperature and humidity logs
- Status collection
- Environmental control



General Description

The F2M07-PB0A is intended for pairing with Bluetooth™ enabled handheld host, for instance a PDA, notebook or programmable phone.

With a range of up to 30 metres, the F2M07-PB0A is ideal for fast asset inventory checks and pick-to-light applications.

The F2M07-PB0A can be used together with the F2M08 series RFIDS tags and sensor modules.

For pick-to-light applications, the recommended pick-to-light TAGs are F2M08-CL0 and F2M08-BL0. In a pick-to-light application, the TAG to be picked is selected on the handheld, after which the selected TAG will reveal its position by its light indicator.

The F2M07-PB0A is powered by its own battery.

1 Technical Data

Dimensions

Reader Unit: 155 x 100 x 55 mm black
Belt: 1,200 x 30 mm black

Weight: <250 grams

Enclosure: ABS

Protection type:

Reader Unit: IP54

Antennas

RFIDS: Two built in dipole antenna with 1.5 dBi gain
Bluetooth™: One built in dipole antenna with 1.5 dBi gain

Operating temperature: -18...+70 °C

Powered: 2 x 9 Volt batteries (PP3 size) for approx 8 hours usage.
(Rechargeable batteries can be used)

Operating frequency: 2.4GHz ISM band

Max output power: 0 dBm (1 mW)

Modulation: Frequency hopping

Reading distance: Up to 30 metres line of sight

Wireless configuration: Tag Talks First (TTF)
Reader Talks First (RTF)
Output power
Blink rate
TAG status flag
(Available parameters depend on the type of TAG).

Host interface options: Bluetooth™ Class 1, Serial Port Profile



Figure 1 - Battery compartment of F2M07-PB0A

2 Host interface

The host interface is used to configure the F2M07 reader as well as TAGs within range. The reader host interface protocol uses a set of commands for configuration, reading identity and other types of information from the TAG's.

The Host Interface Protocol is described in a separate document.

3 Compatible RFIDS Tags

The F2M07 Reader works with the F2M08 family of RFIDS™ tags and sensor modules. Some examples are listed below.

RFIDS Tag	Description
F2M08-S00	Tag for identification
F2M08-S10	Tag for identification and temperature sensing
F2M08-200	Small tag for office assets
F2M08-C00	Card tag
F2M08-B00	Identification tag for assets
F2M08-B10	Tag for logging of temperature variations
F2M08-B20	Tag for logging of temperature and humidity
F2M08-BS0	Asset security wireless lock tag
F2M08-BL0	Pick-to-light tag for larger assets
F2M08-CL0	Pick-to-light tag in card shape

4 Applications

Free2move can offer applications which been developed by Free2move's technology partners for the RFIDS™ system. Among those are:

- Asset tracking and management systems
- Attendance management systems
- Asset security systems

5 Ordering information

The F2M07 is available for delivery with the following part numbers:

Part no:	Description
F2M07-PB0A	RFIDS Reader for belt-mounting with Bluetooth™ and built-in antennas

Please indicate quantity for best price quotation.

6 Accessories

Part no:	Description
N/A	N/A

7 Contact information

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