

## Features

- Up to 60 metres (180 feet) range
- 40 bit read only Unique Identification (UID)
- Long battery life
- 20 byte User Defined Segment (UDS) read/write memory
- IP54 enclosure
- Safe to be used in food distribution and most asset management and supply chain applications
- Replaceable battery



## General Description

The RFIDS™ TAG F2M08-B00 is designed for asset identification and tracking. It's principally intended for larger moving objects such as machinery, equipment, tool-boxes, vehicles, carts, pallets and containers, which are spread over a larger area such as a warehouse, fabrication yard, industrial compound or construction site.

The TAG comes with a rugged enclosure with durable flanges.

The TAG beacons a message in intervals. The message contains the unique identifier (UID), a user defined string (UDS) and various status information including the battery status of the tag.

The message can be picked up by RFIDS™ readers connected to a computer or a network. Groups of RFIDS readers are installed to cover a certain read zone. Every read zone can track several hundred tags at the same time.

## Applications

- Larger assets
- Machinery
- Industrial equipment
- Vehicles
- Containers
- Pallets



### Technical Data

Dimensions:	80 x 40 x 20 mm (96.30 x 40 x 20 mm with flanges)
Protection type:	IP54
Operating temperature:	-18...+80 °C
Powered:	2 x AA batteries
Battery voltage monitoring:	Yes
Operating frequency:	2.4GHz ISM band
Spectrum:	GFSK Frequency Hopping
Read distance:	Up to 60 meters Line of Sight
Configuration distance:	Up to 10 metres
Wireless configuration:	Via F2M07 series RFIDS™ reader
Unique Identification (UID):	Factory programmed 40 bit unique identifier for each TAG.
User defined read/write segment: (UDS):	20 byte = 160 bits = 20 ASCII characters
Radio modes:	Reader Talks First (RTF) Tag Talks First (TTF)
Output power:	Max 1 mW (0 dBm), settable to -5 dBm, -10 dBm and -20 dBm
Update interval:	User defined in 1 second steps from 1 second to 1000 minutes.
Conformance:	CE, FCC P.15 Class A, RoHS
Security:	Non-tamper UID AES encryption possible

### Labelling

Default:	Barcode label
Option: (F2M08-B0U)	EPC Gen2, ISO 18000-6c compliant label (UID stored in EPC memory)

### Battery life

Battery life is estimated using Energizer Industrial Alkaline AA battery (EN91) at 21°C temperature. Values are approximate and will vary with different battery types, tag configuration and environment temperature. At 15 seconds blink interval and longer, the batteries' self-discharge becomes a more important factor than the tag's consumption.

Update interval	Lifetime	
	RTF mode	TTF mode
2 sec	1.5 year	3 years
6 sec	4 years	6 years
15 sec	8 years	10 years
30 sec	13 years	15 years

### Compatible readers

In general, the F2M08-B00 Tag can be used with any F2M07 series RFIDS™ reader.

Part number:	Description
F2M07-S20	RFIDS™ reader with standard enclosure and RS232 interface
F2M07-SL0	RFIDS™ reader with standard enclosure and Ethernet LAN interface
F2M07-S40	RFIDS™ reader with standard enclosure and RS422 interface
F2M07-PB0A	Portable RFIDS™ reader for belt-mounting with internal short range antenna and Bluetooth interface
F2M07-D20A	Desktop RFIDS™ tag encoder with internal short range antenna and RS232

### Applications

Free2move's VARs and software partners have deployed the F2M08-B00 tags for the following applications:

- Use control and theft protection of construction equipment
- Tracking of pallets
- Tracking of work in process at fabrication yard
- Tracking of production trolleys at electronics manufacturer
- Horse racing time measurements

## Ordering information

Part no:	Description
F2M08-B00	F2M08-B00 : Identification TAG in flanged IP54 enclosure with 2 x AA replaceable batteries
F2M08-B0U	F2M08-B0U : Identification TAG in flanged IP54 enclosure with 2 x AA replaceable batteries and with EPC Gen2 ISO 18000-6c label

## Accessories

Part no:	Description
FA-08-BAA00-100	High performance AA batteries in pack of 100 pcs (2 per Tag needed)

## Contact

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