



## MANGO TAG

MT02 VDC  
FT05 VCU

- > IP65 protection – water and dust resistant
- > Rechargeable battery OR power connection to vehicle battery
- > Monitors engine on/off-vehicle status
- > Optional driver ID card reader
- > Optional GSM module to eliminate reader installation (where reliable signal coverage exists)

### FOR VEHICLES AND MOTORIZED EQUIPMENT

Equipped with precise locating functionalities, Mango Tag helps locate & monitor vehicles and equipment in order to improve workflow and utilization. Mango tag connects to the battery of the vehicle or the motorized equipment, thus eliminating the need for charging or battery replacement.

Locates vehicles and motorized equipment with up to 30 cm accuracy level.

No reliance on GSM networks and no monthly fees.

Ideal for collision avoidance and equipment monitoring applications.

#### Ideal for applications at:

- Manufacturing facilities (Forklift Tracking, Gate Automation, Dock Monitoring)
- Airports (Ground Support Equipment Tracking)
- Mines (Underground & Above the Ground Traffic Monitoring, Signalization)
- Sea ports
- Construction sites

#### ADVANTAGES

Automated network discovery and connection

No monthly fees

Reliable and high speed communication

No interference with surrounding equipment that work with RF

Secure communication with 128 bit AES

Remote software update feature permits forward compatibility for future developments

Up to 30 cm location accuracy

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## OPERATING SPECIFICATIONS

• Data Communication	RF
• Operating method	Indoors: TOF, TDOA, RSSI Outdoors: GPS, 66 channel (Ultra-High Sensitivity: -165 dBm)
• Coverage	LOS 1000 m outdoors, 120 m mines & tunnels, 75 m indoors
• Sampling Rate	(0.5 sec - n days) Adjustable
• Max. Accuracy	indoors : 30 cm, outdoors : 3m - clear sky w/GPS
• LED indicators	Power, battery status, signalling
• Sensors	Motion sensor, tamper sensor (optional)
• Frequency	2.4 GHz - standard / 5 GHz high precision
• Antenna type	PCB 2 dBi
• RF Power	0 dBm - 18 dBm
• Protocol	IEEE 802.15.4—IEEE 802.15.4 a WPAN, GPRS, Optional WiFi 802.11 b/g, Optional GSM
• Security	128bit AES Optional

## PHYSICAL SPECIFICATIONS

• Dimensions (LxWxD)	64 x 65 x 34 mm ( 2.52 x 2.56 x 1.34 in)
• Weight	110 g (3.88 oz)
• Operation Temperature	-30 / + 70°C
• Relative Humidity	0 to 95% non-condensing
• Environmental protection	IP65
• Vibration resistance	3g
• Casing	ABS
• Remotely Upgradeable Firmware	Yes
• Battery	3V Lithium Ion Rechargeable 800 mAh Optional Backup Battery
• Backup Battery Life	3 hours operation

## OTHER

• DC Supply	12-36 V
• Certification	CE
• Comm. Interface	RS-232 Optional, RS-485 Optional, UDP Optional, TCP-IP Optional
• I/O Interface	Relay Input/Output
• Sensors	Motion Optional, Heading Optional, Driver ID card reader Optional

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