

FEATURES

- High-frequency, long-range RF channel.
- Low-frequency, short-range RF channel.
- PDA iPAQ based device.
- Open code (API).
- Communicates with Tags Seals and Readers.

Master Hand Held



The Master Hand Held is a component of the Hi-G-Tek's wireless monitoring system.

The system uses active RFID technology and hardware to provide automatic processing and real-time monitoring of cargoes or assets in transit and in storage. The system combines the technological and operational advantages of portable electronic sensors (Seals or Tags) with high-frequency long-range monitoring and automatic data collection.

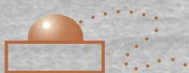
The master hand held is iPAQ based device with an active RFID extension connected to the iPAQ CF slot. The master hand held has a long range and a short range communication channels, providing the capability of interrogate, configure, set and collect data from tags in broadcast and in one on one modes. It communicates also with a Reader, thus providing the ability to receive messages when out of the tags receive zone.

Information flow from the iPAQ can be performed by the standard iPAQ capabilities such as WiFi, Bluetooth, IR or USB.

The RFID extension unit is powered and controlled by the iPAQ, and has internal power backup providing alert receiving capability during iPAQ sleep mode..

The master hand held is supplied with an API to enable end user to extend application capabilities.

The master Hand held is supplied with ruggedized leather flip case and a shoulder strap.



Master Hand held

COMMUNICATIONS

Frequency Range

Low frequency: 125KHz

High frequency: 916.5MHz (Model IGMA51916), 433.92MHz (Model IGMA51433)

Read/Write Range

High frequency: 50m in open space.

Low frequency: 20cm.

POWER REQUIREMENTS

Supply

Internal iPAQ supply.

RFID Extension Module Current Consumption

HF transmit: 30mA.

LF transmit: 20mA.

Stand by: 20uA.

RFID Extension Module Internal backup

Operating time: 1 hour at typical operation scenario.

PHYSICAL

Dimension

RFID extension module :

LxWxH- 55 x 45 x 29 mm

ENVIRONMENTAL

Operating Temperature

0°C to +40°C

Storage Temperature

-20°C to +60°C

Humidity

90% RH non-condensing

STANDARDS

The RFID extension module is designed to comply with local regulations according to the required communication frequency.