

# HR250

## EPC GEN 2 RFID Reader



EPCglobal UHF general 2  
Certified Hardware



9501101260000000162  
MaxID Rm100 RFID Reader

### Product Overview

The HR250 from MaxID Ltd is a multi-protocol handheld RFID reader designed to support all EPC compliant UHF RFID tags.

The HR250 will take your supply chain management to a new level of efficiency with the imager scanner capable of reading all popular 1-D barcodes as well as the growing number of 2-D barcodes.

The HR250 will connect to your host computer via your local area network using 802.11b WiFi technology to exchange or synchronise data. The HR250 is also capable of operating in batch mode utilising its 32MB flash / 64MB RAM for data storage.

It is a high-performance reader that collects, writes, processes and communicates information from all classes of EPC RFID tags. The HR250 leverages advanced digital filter technology to deliver superior interference management and is optimised to read tags in both clean and noisy radio environments.

### Features

- Multi-protocol reader designed for Gen 2
- Highest performance RFID capability
- Cost competitive
- Rugged IP64 rated housing
- Full tag read/write capability
- USB and WiFi interface
- 1-D & 2-D barcode scan capabilities
- Field programmable firmware upgrades

### Protocols

- EPC Class 1, Generation 1
- EPC Class 1, Generation 2
- EM 4022, 4222, 4223
- UCODE EPC 1.19
- ISO 18000-6B

### Applications

- Warehouse
- Automotive
- Airline baggage
- Consumables
- Livestock tracking
- Bin tracking
- Valuable asset tracking
- Vehicle access systems

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# HR250

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### Electrical/Performance Specifications

#### Main

Keyboard	4 cursor keys, enter & power keys, trigger
Display	128x64 dots LCD, 66mm x 33mm viewing area
CPU	iMX ARM 9 @ 200MHz
Operating system	Win CE.NET 4.2
Memory	32Mbyte flash, 64Mbyte SDRAM
Application Development	Embedded Visual C++ 4.0 + comprehensive MaxID SDK

#### Interface

WLAN	802.11b
Radio Power	+13dBm
Transmit rate	Auto, 11Mbps down to 1Mbps
USB	1.1 slave device

#### RFID

Regulatory	ETSI EN 300-220 / ETSI EN 302-208
Frequency band	869.4-869.65MHz / 865.6-867.6MHz
Channels	1 / 10
Transmitter power output	500mW ERP max
Antenna	Circular polarized patch antenna
Read/Write range	2m read, 1m write (depending tag type and environment)
Operating voltage	8.4 VDC Lithium-Ion battery (charger supplied)
Operating current	1.2A when reading, 240mA idle

#### Physical

Height	6.69in (170mm)
Length	7.48in (190mm)
Width	4.57in (116mm)
Weight	33.86oz (960 gram)

#### Environment

Operating Temperature	0°C to +40°C
Storage Temperature	-20°C to +70°C
Humidity	95%, non-condensing
Drop spec	1.2 meters
ESD	+8KV(indirect), +4KV(direct)
IP Rating	IP 64