

# 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 are 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

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

### MaxID Ltd.

3000 Hillswood Drive  
Hillswood Business Park  
Chertsey  
Surrey, KT16 ORS  
United Kingdom  
Tel +44 (0) 1932 895396  
Fax +44 (0) 1932 895397  
e-mail [sales@maxidgroup.com](mailto:sales@maxidgroup.com)  
[www.maxidgroup.com](http://www.maxidgroup.com)

# HR250

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### Electrical/Performance Specifications

#### Main

Keyboard	Arrow type 5-key
Display	128x64 dots LCD, 66mm x 33mm viewing area
CPU	iMX 200MHz
Operating system	Win CE.NET
Memory	32Mbyte flash, 64Mbyte RAM
Application Development	SDK available

#### 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
Frequency band	869.4-869.65MHz
Channels	1
Transmitter power output	Software adjustable to 1W (conducted)
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	-10°C to +40°C
Storage Temperature	-20°C to +70°C
Humidity	95% (non-condensing)
Drop spec	2 meter
ESD	+8KV(indirect), +4KV(direct)