

## HZ100 Integrated UHF RFID Reader



**Smart 100** (model number: HZ100) is Hopeland newly designed Integrated UHF RFID reader with the best price/performance ratio. It adopts Impinj E710 newest high performance RFID chip, under the premise of meeting the high performance of RFID, which streamlines some uncommon functions to meet most of the RFID application scenarios.

### Typical applications

- Logistics industry such as, warehouse inventory management, cargo transfer tracking, etc.
- Intelligent vehicle management e.g. vehicle inspection, customs clearance, etc.
- Anti-forgery identification.
- Production automation, parts flow management, etc.
- E-ticketing and identification of personnel cards, etc.
- Power patrol, asset access management, etc.

### Features

- Powered by Impinj E710 chipset for maximum tag detection performance.
- Kinds of communication interfaces: RJ45, RS232, RS485, Wiegand
- Industrial, installation-friendly I/O connector
- Support RSSI, antenna detection, online update
- RSSI & speed filters

## Specifications

### SDK AND FIRMWARE MANAGEMENT

Firmware Upgrade	Demo software Windows platform– .Net /Java SDK
API Support	Android platform - Java SDK Linux platform – Java SDK

### PHYSICAL CHARACTERISTICS

Dimensions	276mm×276mm×41mm
Weight	1.65kg
Housing Material	Aluminum +ABS
Visual Status Indicators	Hidden light strip

### RFID CHARACTERISTICS

Air Protocols	ISO/IEC18000-6B, 6C / EPC C1Gen2 <b>C2GEN2 optional</b> CHN: 920MHz ~ 925MHz (CMII)
Frequency	USA: 902 MHz-928MHz (FCC part 15) EU: 865MHz ~ 868MHz (ETSI EN 302208)
Built-in antenna	Circular 9dBi, VSWR ≤ 1.2:1
Output Power	0dBm-33dBm (±1dBm) adjustable
Channel bandwidth	< 200KHz
Reading Distance	0-15m(According to Tag & Environment)
Anti-collision	Support multi-tag / intensive inventory
Work Mode:	Fixed/hop frequency optional

### CONNECTIVITY

Communications	RJ45, RS-232, RS485, Wiegand 26/34/66
General Purpose I/O	1 optcoupler input, 1 pair 5V output or wiegand output (wiegand output is shared with 5V output) DC 9V~30V
Power supply	Working power consumption: 10W (read tags with 33dB output power) Standby: < 2W

### ENVIRONMENTAL

Operating Temp.	-20 - +70°C
Storage Temp.	-40 - +85°C
Humidity	5-95% non-condensing (+25°C)
Sealing	IP65

## Outline Dimensions

