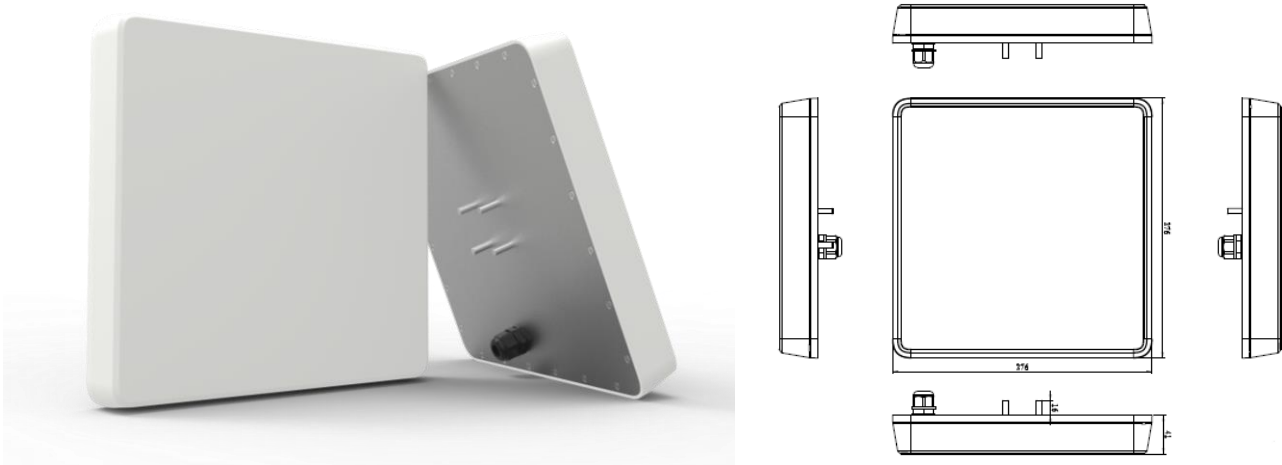


# HZ100 Integrated UHF RFID Reader



**Smart 100** (model number: HZ100) is Hopeland newly designed Integrated UHF RFID reader with the best price/performance ratio. It adopts Impinj INDY R2000 or newest RAIN RFID E710/E510 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 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	<b>0-18m (According to Tag &amp; Environment) (E710 version 18m, R2000 15m, E510 15m)</b>
Anti-collision	Support multi-tag 200-600tags/second, support intensive inventory
Work Mode:	Fixed/hop frequency optional

### CONNECTIVITY

Communications	RJ45, RS-232, RS485, Wiegand 26/34/66
General Purpose I/O	1 optocoupler 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