

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 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 R2000 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 C2GEN2 optional
	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
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Storage Temp.	-40 - +85°C
Humidity	5-95% non-condensing (+25°C)
Sealing	IP65

Outline Dimensions

