

Sharp 100 Integrated RFID Reader



Integrated RFID Reader (model number HF100) is a Hopeland new designed masterpiece, high-performance UHF RFID integrated reader. It uses Impinj INDY R2000/E710 high-performance RFID chip and supports ISO18000-6C/6B protocol , Running Linux 2.6 operating system. Support the extension of an external antenna.

128MB ROM capacity, support offline cache of 10,000 tags. It can also be equipped with wireless communication functions such as WiFi and Bluetooth, with RJ45, RS232, RS485 and I/O communication interfaces, and POE is optional.

Features

- Powered by Impinj R2000/E710 chipset for maximum tag detection performance.
- Support web management platform
- Kinds of communication interfaces: RJ45, RS232, RS485, Wiegand, Optional Bluetooth, WiFi
- Support RSSI, antenna detection, online update
- RSSI & speed filters

Specifications

HARDWARE, OS AND FIRMWARE MANAGEMENT

Processor	ARM9, 400MHz
Memory	Flash 128MB; DRAM 32GB
Operating System:	Linux 2.6
Firmware Upgrade	Demo software / Web
API Support	Windows platform– .Net / .Net core / C++ / Java SDK Android platform - Java Linux platform – Java SDK

PHYSICAL CHARACTERISTICS

Dimensions	276mmx276mmx70mm
Weight	About 1.76kg (net weight)
Housing Material	Die-cast aluminum
Visual Status Indicators	Power/Status, Ant 1-2, WiFi, Bluetooth, 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: 865-868MHz (ETSI EN 302208)
Built-in antenna	Circular 9dBi, VSWR $\leq$ 1.2:1
Output Power:	0dBm-35dBm ($\pm$ 1dBm) adjustable
Channel bandwidth:	< 200KHz
Anti-collision	Support multi-tag / intensive inventory
Work Mode:	Fixed/hop frequency optional

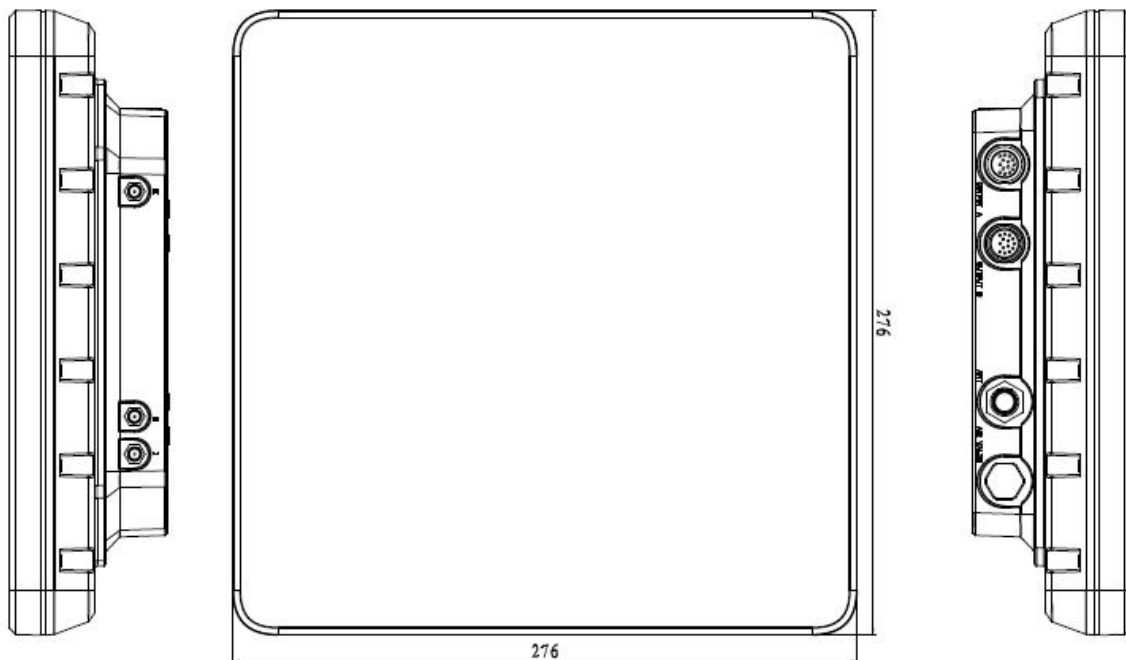
CONNECTIVITY

Communications	RJ45, RS232, RS485 Wiegand 26/34/66 WiFi : 802.11 a/b/g/n/ Optional Bluetooth: BT v2.1+EDR, v4.2 Optional
General Purpose I/O	2 inputs(DC 0~24V), 2 relay outputs(DC_MAX:30V,2A; AC_MAX:125V,0.3A), optically isolated
Power supply	DC 24V/2.5A (DC 9V ~ 30V,60W) or POE(IEEE 802.3 at/bt)
Antenna Ports	1 Reverse Polarity TNC port; circular or linear polarization; near and far field compatible

ENVIRONMENTAL

Operating Temp.	-20 - +70°C
Storage Temp.	-40 - +85°C
Humidity	10-95% non-condensing (+25°C)
Sealing	IP67

Outline Dimensions



FCC warning:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following three conditions:

This device may not cause harmful interference, and

This device must accept any interference received, including interference that may cause undesired operation.

The distance between user and products should be no less than 20cm

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may

cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. such modifications could void the user ' s authority to operate this equipment

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE warning

Manufacturer: Shenzhen Hopeland Technologies Co., Ltd.

Address: 17/F, Block A, Clou Bldg, Baoshen Road, Hitech Industrial Park North, Nanshan

District, 518007, Shenzhen, China

Hereby, Shenzhen Hopeland Technologies Co., Ltd. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU

Importers: XXXXXXXX

Address: XXXXXXXX

For the full RED DoC file, Please download it as follow web: <http://XXXX.XXXX>

The wireless operation frequency

RFID: 865.7MHz ~ 867.5MHz, Max EIRP Power 18.57dBm