Sharp 100 UHF Integrated RFID Reader



Sharp 100 (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**
Frequency	CHN： 920MHz ~ 925MHz (CMII) USA: 902 MHz-928MHz (FCC part 15) EU: 865-868MHz (ETSI EN 302208)
Built-in antenna	Circular 9dBi, VSWR ≤ 1.2:1
Output Power:	0dBm-35dBm (±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℃)
Sealing	IP67

Outline Dimensions

