



Hopeland HZ540 4-Port Long Distance UHF RFID Module for Fixed Reader Integration User Manual

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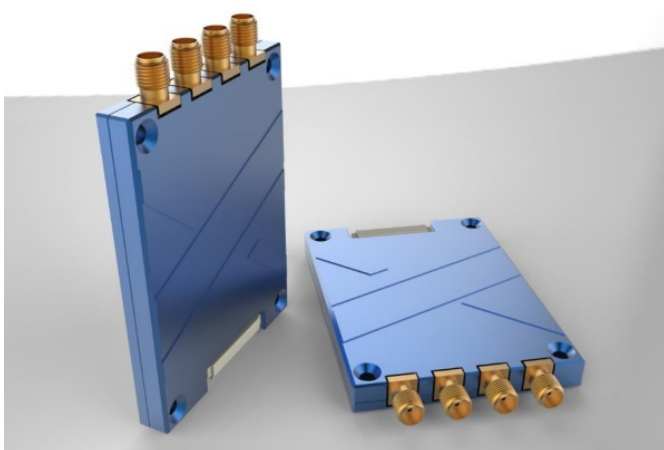
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Hopeland HZ540 4-Port Long Distance UHF RFID Module for Fixed Reader Integration User Manual



HZ540 4-port Long distance UHF RFID Module For fixed reader integration



General Description

The HZ540 module is a miniaturized UHF RFID reader. The core component adopts Impinj Indy R2000 chip as the core platform. It supports ISO 18000-6C/6B, EPC C1G2, users can communicate with their own devices through the UART-TTL serial on the interface, and its wide power supply range (DC4.5V~6V) and configured GPIO interface (IO1-IO4, IO1/IO2 as input, IO3/IO4 as output) can provide users with more choices.

Due to the excellent tag reading distance and multi-antenna design of the module, it can be used as a design solution for small readers.

Key Features

- Support protocol: ISO18000-6B/C EPC C1G2
- Working mode: fixed frequency/frequency hopping optional
- Adjustable RF output power, 1 dB step-by-step

- Support multi-antenna polling work or designated antenna work
- Support antenna detection function
- RSSI support: the strength of the signal can be sensed.
- Support tag data filtering
- support Anti-collision algorithm
- Support multiple tags inventory

Typical Applications

- Split-type Fixed RFID Reader integration
- Integrated RFID Reader
- The reader which is designed based on this module can be applied to various wireless RFID application schemes such as article and logistics management, warehouse management, animal management, article anti-counterfeiting, electronic goods monitoring and manufacturing and processing, and production automation.

Technical Parameters

Operating Voltage	+4.5V ~ +6V
Standby Mode Current	< 20mA
Operating Current	5V power supply, output RF power 33dBm, working peak current around 2000mA
Size	78.55×53.5×7.95mm
Air Interface Protocol	EPC C1G2 / ISO 18000-6C, ISO 18000-6B
Frequency Range	840MHz~960MHz US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302 208 with & without LBT regulations
Output Power	0~33dBm
Output Power Precision	±1dB
Receive Sensitivity	≤-85dBm
Tag RSSI	supported
Antenna port detection	supported
Communication interface	TTL UART serial, Baud rate 115200bps
RF connector type	SMA
Interface cable type	15P 1.25mm pitch cable
Heat Dissipation	Air cooling with external heat sink
Operating Temperature	20°C~ 70°C
Storage Temperature	40°C~ 85°C
Operating humidity	95% (25°C)

Note:

- Heat dissipation design should be considered when working continuously for a long time with high output power.
- The power supply voltage should not exceed 6V, otherwise the internal circuit may be damaged.

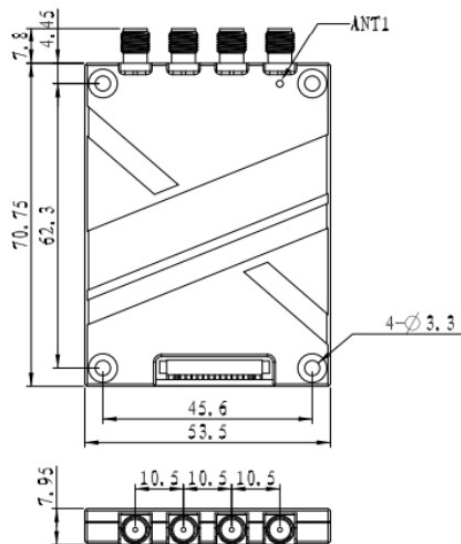
Interface Description

CE Rules

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

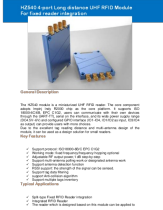
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For the full RED DoC file, Please download it as follow web: <http://XXXX.XXXX> The distance between user and products should be no less than 20cm



PIN	Definition	Description
1	GND	Both connected to ground
2	GND	
3	4.5V-6V DC	Both connected to power
4	4.5V-6V DC	
5	GPIO3	output (3.3V)
6	GPIO4	output (3.3V)
7	GPIO1	input (3.3V)
8	BUZ	Buzzer driver (3.3V)
9	UART_RXD	TTL Level
10	UART_TXD	
11	NC	NC
12	NC	
13	GPIO2	input (3.3V)
14	EN	High level enable (The EN pin can be left floating. The EN pin of the module is high by default, that is to say, it is enabled by default.)
15	NC	NC

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References

-  [Professional RFID Technology & RFID Device | Hopeland RFID](#)