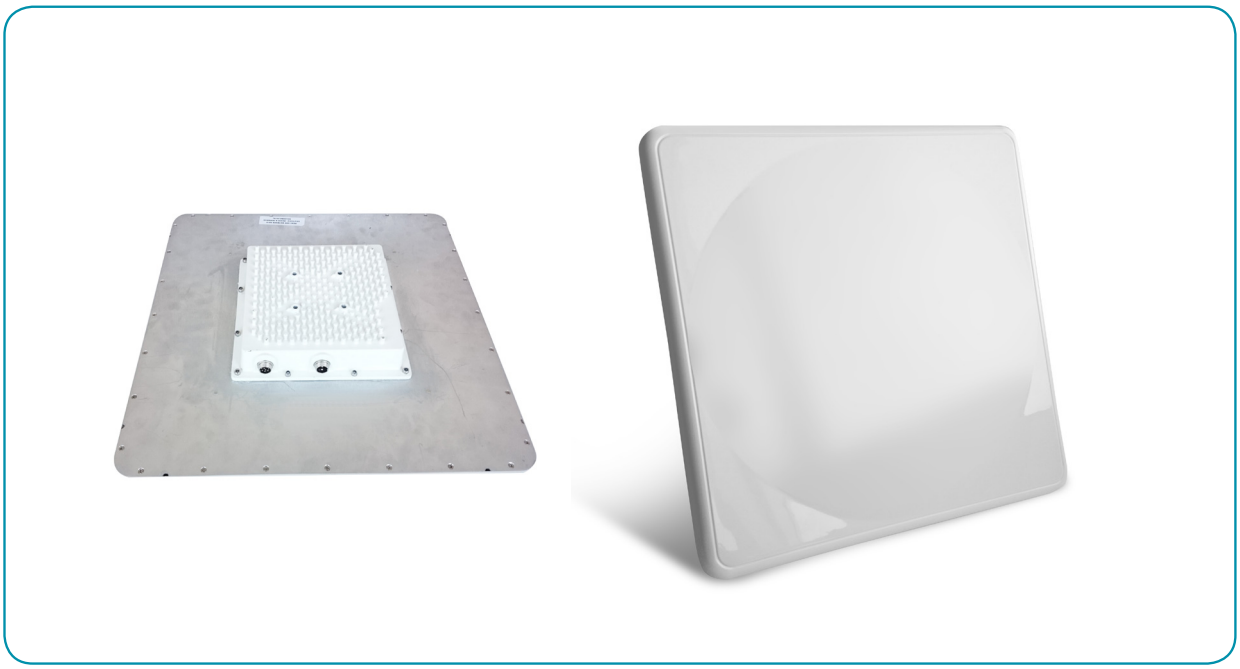
RD 42 UHF 10 DBI

Integrated RFID Reader



ANTENNA SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	
Operating Frequency	865 - 868 MHz
Polarization	Linear
Fare-Field 3dB Beamwidth	72° XZ, 23° YZ
VSWR	<=1.5
Input Impedance	50
Max Input Power	50
F/B Ratio	20 dB

MECHANICAL	
Connector Type	N Female
Dimensions	30 x 30 x 2 cm

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ENVIRONMENT	
Operating Temperature	-40° to +60°C

READER SPECIFICATIONS

CHARACTERISTICS	
Phychip PR9200 Inside	• PR9200 has an outstanding performance with a low cost
Excellent Performance of Reading Tags	• Identifying Tags sensitively and stably • Stable read distance is 3-2m with Microstrip ceramics antenna • 8dBi Circular Polarization Planar Antenna: >10m • 12dBi Linear polarization antenna: >15m • Performance of multi-tags identification: >50pcs • Read rate: >50pcs/s
Completely Solve the Problem of Heat	• Don't need any cooling devices • No heat during long-term continuous full load working at room temperature • Continuous Current <200mA @26 dBm Output (3.5V Power Supply) • Peak pulse current <260mA @26 dBm Output (3.5V Power Supply)
Excellent Stability	• 24 hours X 365 days continuous working without Crash • Less influence by shell, electromagnetic environment, etc. • Wide temperature design. Temperature Coefficient is very low
Excellent Consistency	• A model of design consistency • Every indicators are calibrated rigorously, ensure consistency
Simple and Efficient Interface	• Communication interface is compatible with our INDY R2000 series • Peripheral circuits are very simple, single power, don't need to connect Ta • capacitor externally (See figure 1: Circuit Design Reference)
Supports Two Installation Methods	• Supports RF connector + FPC connector installation method • Supports Surface Mount Solder
Input Voltage	DC 3.5V – 5 V
Standby Mode Current	<80mA (EN High Level)
Sleep Current	<100uA (EN Low Level)
Operating Current	180mA @ 3.5V (26 dBm Output, 25°C) 110mA @ 3.5V (18 dBm Output, 25°C)
Starting Time	<80mS

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Operating Current	180mA @ 3.5V (26 dBm Output, 25°C) 110mA @ 3.5V (18 dBm Output, 25°C)
Starting Time	<80mS
Operating Temperature	- 20 °C - + 70 °C
Operating Humidity	< 95% (+ 25 °C)
Air Interface Protocol	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Supported Region	ETSI EN 302 208
Output Power	0-26 dBm
Output Power Precision	+/- 1dB
Output Power Flatness	+/- 0.2dB
RF Connector	I-PEX
Receive Sensitivity	< 70-dBm
Tag Buffer Size	200 pcs @ 96 bit EPC
Tag RSSI	Supported
Host Communication	TTL Uart port Wiegand 26 Wiegand 34
GPIO	2 input 2 output (3.3V TTL Level)
Baud Rate	115200 bps (Default and Recommended) 38400bps
Cooling	Air cooling (Don’t need external Heatsink)

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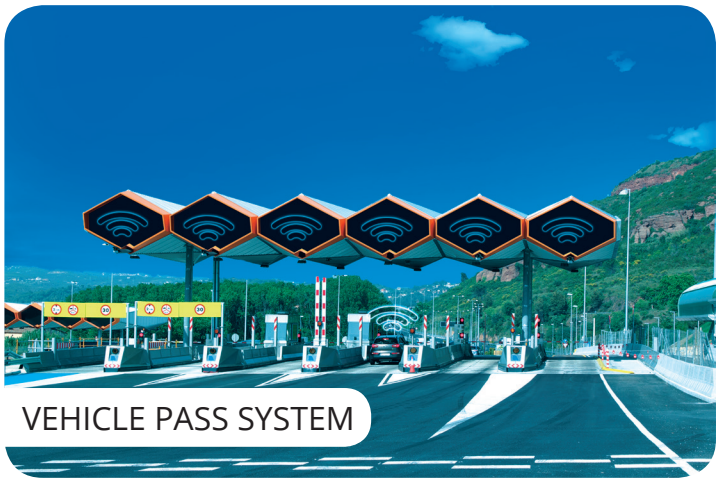
APPLICATIONS



VEHICLE PASS SYSTEM

WEIGHBRIDGE AUTOMATION

LOGISTICS MANAGEMENT

WAREHOUSE AUTOMATION

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