

RFD7100

UHF RFID Integrated Reader for Vehicle Tracking

RFD7100 is a UHF RFID integrated reader designed for reliable vehicle identification and access control. Ideal for parking management, gate automation, and fleet tracking solutions at both indoor & outdoor locations.



Vehicle Identification

Fast & reliable UHF RRID vehicle tag reading



Access Control Ready

Seamless integration with gate & barrier systems



Long Read Range

Up to 15 meters* read range (according to tag & environment)

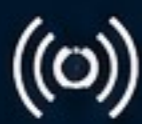


Rugged & Reliable

IP65 weatherproof for outdoor deployment



ISO/IEC18000-6C
EPC C1 Gen2
Air Protocol



Built-in Circular
Antenna 9 dBi
VSWR ≤ 1.2:1



7-30 dBm
RF Output Power
(±1 dBm adjustable)



Up to 15 m*
Reading Distance
(According to Tag & Environment)



IP65
Weatherproof
Design



Multi Interface
Support

SPECIFICATIONS

RFID CHARACTERISTICS

Air Protocols	ISO/IEC18000-6C / EPC C1 Gen2
Frequency	CHN: 920MHz ~ 925MHz (CMII) USA: 902 MHz ~ 928MHz (FCC part 15) EU : 865MHz ~ 868MHz (ETSI EN 302208)
Built-in antenna	Circular 9dBi, VSWR ≤ 1.2:1
RF Output Power	7dBm-30dBm (±1dBm) adjustable Channel bandwidth: < 200KHz
Reading Distance	0-15m (According to Tag & Environment)
Anti-collision	Support multi-tag inventory
Work Mode	Fixed/ hop frequency optional

CONNECTIVITY

TCP/IP Version	RJ45, RS232, RS485, Wiegand 26/34/66
Serial Version	RS232, RS485, Wiegand 26/34/66
General Purpose I/O	1 optocoupler input, 1 pair 5V output or wiegand output (wiegand output is shared with 5V output)
Power Supply	DC 10V~30V
Power Consumption	Working: < 6W (read tags with 30dB output power) Standby: < 2W

PHYSICAL CHARACTERISTICS

Dimensions	290mm × 290mm × 55mm
Weight	1.6kg (Without accessories)
Housing Material	Aluminum + ABS

ENVIRONMENTAL

Operating Temp.	-20 ~ +70°C
Storage Temp.	-40 ~ +85°C
Humidity	5-90% non-condensing (+25°C)
Sealing	IP65

SDK AND FIRMWARE MANAGEMENT

Firmware Upgrade	Demo software
API Support	Windows - .NET, Java SDK Android - Java SDK Linux - Java SDK

TYPICAL APPLICATIONS



Parking
Management



Fleet
Tracking



Toll
Collection



Residential &
Office Access



Car Rental

