

**BR12L****Integrated Long Range Reader****Key Features:**

- High performance, easy installation
- Built-in 12 dBi antenna ensures long range reading
- Provides all kinds of communication interfaces
- Waterproof and sunshine defending, ideal for outdoor applications

Introduction

BR12L UHF RFID Reader base on new generation reader technology platform development which is combine UHF RFID advanced technology and many years reader application base experience. This reader is more stable and can use in various applications.

Supported RFID Tag Protocols

EPC Class1 Gen 2; ISO 18000-6C



Parameter

Items	Parameter
Frequency	US (902~928MHz) , China (920~925MHz) , EU (865~868MHz) , other frequency select. E.g. Malaysia ISM919-923MHz, Philippines ISM918-920MHz
Supported RFID Tag Protocols	ISO18000-6C, EPC Class1 Gen2
Reader Protocols	Reader protocol
RF Power	0~30dBm adjustable
Sensitivity	-80dBm
Antenna	12dBi linear polarization antenna
Reading Range	Up to 12 m (adjustable on Testing Demo software)
Processor	ARM CORTEX M3 100M CPU
Data Interface	100M Ethernet Interface (TCP/IP) RS232,RS485, Wiegand 26/34 1 set input and 1 set output (TTL),1 set relay
Software SDK	C++
Power Supply	DC +9V~+15V
Indicators	Buzzer
Working Temp.	-20~60°C
Weight	2kg
Dimensions	440*440*68.6mm
Certifications	FCC, CE
Color	Gray
Housing	ABS
Ingress Protection	IP65

Functional Description

● 4.1 ISO18000-6C / EPC G2 Tag operation

Reader Support ISO18000-6C, EPC G2 tag, It support Multi tag query, read, write, selection, Single tag read, write, lock, kill.

● 4.2 Working Parameter Setting

User can set the parameter of interface, IP address, Jump Frequency point, output power, reading indication, working mode etc; When in Timing or Trigger mode, can set the parameter of reading card type, read area, address, length, output method, output interface.

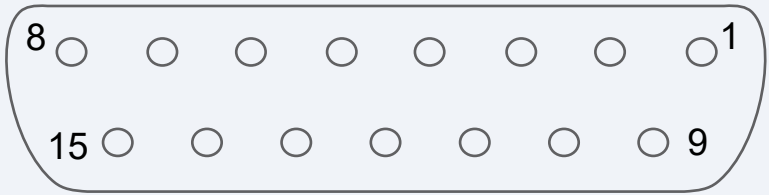
● 4.3 Communication Function

Support Ethernet, RS232 and RS485 both-way communication interface, protocol compliant to 《UHF RFID reader and PC communication protocol V2.0》 ; Also reader support Weigand single way data transmission interface, format compliant to Wiegand 26 and Wigand 34 interface protocol

● 4.4 Working Mode

Support timing read or trigger read working mode, all tags in query area can be read according to set address and length, read data direct output. Read data can selected for filtering same tag. Output data interface can be any one of interface or multiple interface, meanwhile can configure relay

Interface Definition

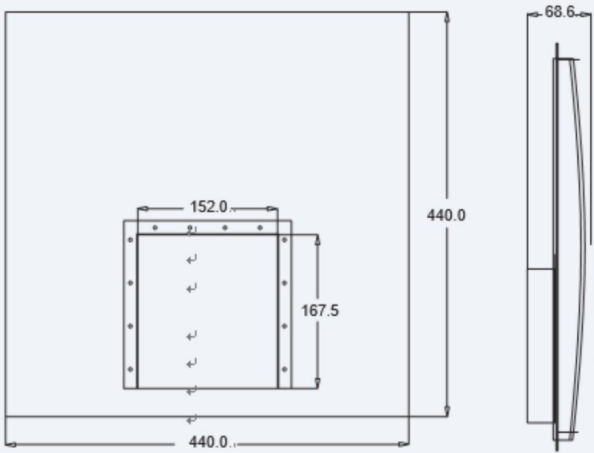


DB15 Pin Diagram

DB15 pin function allocation

Pin number	Pin function
1	GPIO signal output2
2	GPIO signal output1
3	Signal Ground
4	RX(RS232)
5	TX(RS232)
6	Signal Ground
7	GPIO signal input 2(closed)
8	GPIO signal input 1
9	Signal Ground
10	A+ (RS485)
11	B- (RS485)
12	Signal Ground
13	Relay normal close port
14	Relay common port
15	Relay normal open port

Dimension



Accessories



Applications

- 1. Intelligent traffic management such as ETC, custom clearance, parking lot, and automatic weighing.
- 2. Logistics such as container management, pallet management, and asset tracking.
- 3. Ticket business and access control.

Installation

