

**BOXRF**<sup>TM</sup>  
BR05M**Integrated Mid Range Reader****Introduction**

BR05M 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 Gen 2; ISO 18000-6C

**Parameter**

| Items                        | Parameter                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------|
| Frequency                    | US (902~928MHz) , China (920~925MHz) , EU (865~868MHz) , other frequency selectable                              |
| Supported RFID Tag Protocols | ISO18000-6C,EPC G2                                                                                               |
| Reader Protocols             | Reader protocol, firmware upgradable                                                                             |
| RF Power                     | 0~30dBm adjustable                                                                                               |
| Sensitivity                  | -80dBm                                                                                                           |
| Antenna                      | 9dBi Circular polarization antenna                                                                               |
| Read Speed                   | Multi tag-200pcs/second, single tag 2000 times/minute                                                            |
| Reading Range                | 6m                                                                                                               |
| Processor                    | ARM CORTEX M3 100M CPU                                                                                           |
| Memory                       | 16KB tag data memory                                                                                             |
| Data Interface               | 100M Ethernet Interface (TCP/IP)<br>RS232,RS485, Wiegand 26/34<br>1 set input and 1 set output (TTL),1 set relay |
| Software SDK                 | C++                                                                                                              |
| Power Supply                 | DC +9V~+15V                                                                                                      |
| Indicators                   | Buzzer                                                                                                           |
| Environment Rating           | IP65                                                                                                             |
| Working Temp                 | -20~60°C                                                                                                         |
| Weight                       | 1.5kg                                                                                                            |
| Dimensions                   | 280*280*68.5mm                                                                                                   |
| Certifications               | FCC, CE                                                                                                          |
| Color                        | Gray                                                                                                             |



## 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

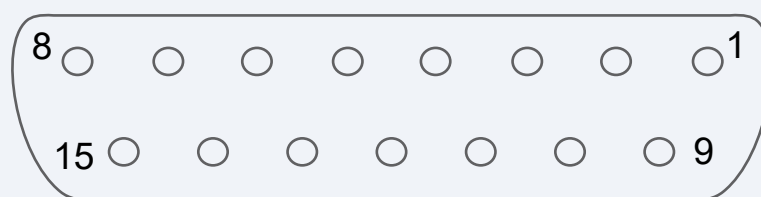
- **4.3 Communication Function**

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 Wiegand 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 or buffer. 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

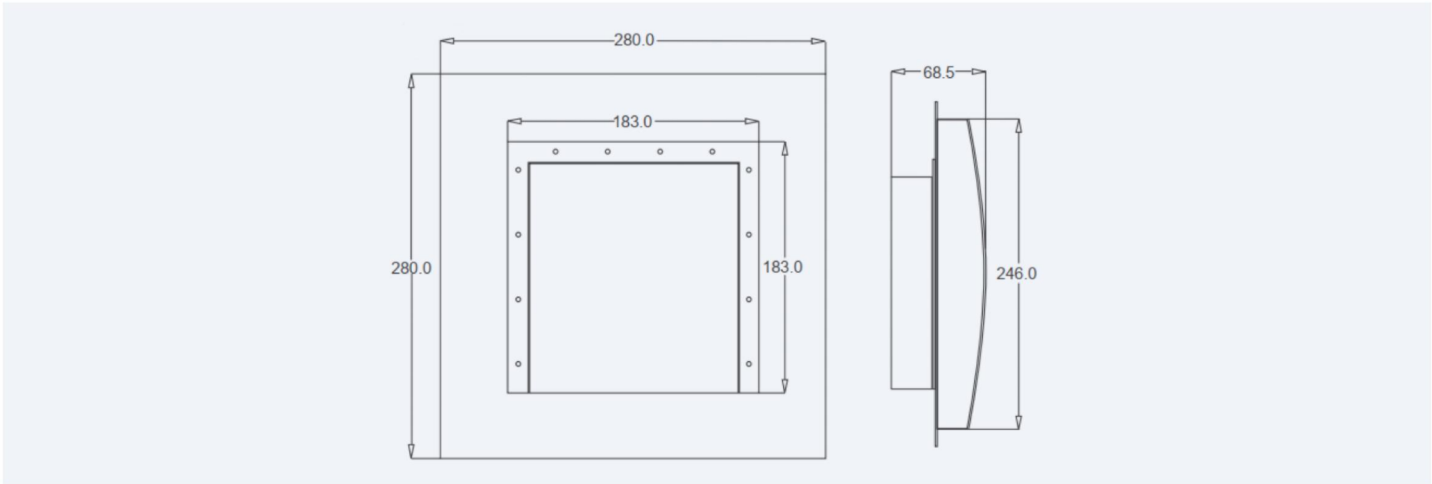


DB15 Pin Diagram

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



Installation

