UHF High Performance Integrated Reader



Name: UHF High Performance Integrated Reader

Model Number: BB1909

Size: 260 x 260 x 78mm

General Description:

BB1909 is a high performance UHF RFID integrated reader. It is designed upon fully self-intellectual property. Based on efficient DSP algorithm, it supports fast tag read/write operation with high identification rate. It can be widely applied in many RFID application systems such as logistics, access control, anti-counterfeit and industrial production process control system.

Application:

♦Vehicle no-stop toll management (car parking lot)

- ♦Logistics and warehouse management
- ♦Production flew-line management
- Animals' recording management
- ♦Products anti-counterfeiting detection

Other field:

- ♦Club management
- Library management
- School and factory access control
- Attendance management and more

Features:

- 1. Self-intellectual property;
- 2. Support ISO18000-6C (EPC C1G2) protocol tag;
- 3. 865~868MHz, 902~928MHz frequency band (frequency customization optional by Soft);
- 4. FHSS or Fix Frequency transmission;
- 5. RF output power up to 30dBm (adjustable);
- 6. 9dBi circular antenna with effect distance up to 0m~15m*;
- 7. Support active mode, answer mode, trigger-activating and password work mode;
- 8. Low power dissipation with single +12V DC power supply;
- 9. Support RS232, RS485, Wiegand interface, Relay, USB, RJ45, WIFI, POE,4G;
- 10. One Relay (Optional) can control Beep, Motor, Light.
- 11. Support ModBus (only RS232, RS485, RJ45 interface).

* Effective distance depends on antenna, tag and environment.

Product mode explanation:

Model	Interface	
BB1909	Standard(RS232, RS485, Wiegand, Trigger)	
BB1909T	Standard with RJ45	
BB1909W	Standard with WIFI	
BB1909TW	Standard with RJ45 and WIFI	
BB1909TP	Standard with RJ45 and POE	
BB1909TPW	Standard with RJ45 and POE and WIFI	
BB1909R	Standard with Relay	
BB1909U	Standard with USB(HID & Keyboard)	
BB1909G	Standard with 4G	
-T: RJ45 -W:WIFI -P:POE –R: Relay –U:USB –G: 4G		

Characteristics:

Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	24	V
Operating Temp.	T _{OPR}	-20~+60	°C
Storage Temp.	T _{STR}	-40~+85	°C

Electrical and Mechanical Specification

Under TA = 25° C, VCC = +12V unless specified

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Power Supply	VCC	8	12	24	V
Current Dissipation	lc		600	1000	mA
Frequency	F_{REQ}	865		928	MHz

Product Technical Parameters

Туре			
Model Number	BB1909		
Туре	UHF High Performance Integrated Reader		
	Physical parameters		
Dimensions	260x260x78mm		
Net Weight	4.0Kg		
Gross Weight	4.5Kg		
Package size	40.5*30.5*10.5cm		
Shell material	ABS		
Color	Gray White		
Environmental p	arameters		
Operation	-20~+60°C		
Temperature	20 .00 C		
Storage	-40~+85℃		
Temperature			
Humidity	5% \sim 95% RH, Non-condensing		
Waterproof Rank	IP65		
Performance			
Frequency	902~928MHz,860~868MHz(frequency customization optional)		
Ant.	9 dBi circular polarization antenna (9 dBi linear antenna optional)		
RF Power	0 - 30dBm		
Read Distance *	0-15m * Effective distance depends on antenna, tag and environment.		
Write Distance *	0-7m * Effective distance depends on antenna, tag and environment.		
Read Rate	200cnt / second		
Read Type	ISO18000-6C (EPC Gen2)		
Reading Prompt	Buzzer		
	DC +9 - 24V, 12W		
Work Mode	Active mode, Answer mode, Trigger mod, Password mode		
	RS232, RS485, WG26, WG34, Trigger,		
Communication	Relay(Optional), RJ45(Optional),		
	WIFI(Optional), POE(Optional), USB(Optional)		

Net	RJ45 support TCP Client/Server, Modbus, DNS, DHCP. WIFI support TCP Client. 4G support TCP Client. HTTP Protocol(Optional), MQTT(Optional), LLRP(Optional)
SDK	
SDK	Support X86 & X64, C++, C#, VB, Delphi, Linux, ARM, Python, NodeJS, QT, JAVA, Android.
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Interface

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Item	Comment
Red	VCC (DC 9V – 24V)
Black	GND
White	RS232 TXD
Purple	RS232 RXD
Brown	GND
Yellow	Wiegand DATA0
Green	Wiegand DATA1
Gray	GND
Pink	RS485 A+
Orange	RS485 B-
Aqua	Trigger input+ (TTL level)
Blue	Trigger input- (TTL level)