UHF Long Range Integrated Reader

GENERAL DESCRIPTION

UHF Long Range Integrated Reader is a high performance UHF RFID integrated reader. It is designed upon fully self-intellectual property. Based on proprietary efficient digital signal processing 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.

FEATURES

- 860~868MHz, 902~928MHz frequency band (frequency customization optional);
- Support ISO18000-6C(EPC C1G2), ISO18000-6B protocol tag;
- FHSS or Fix Frequency transmission;
- RF output power up to 30dbm (adjustable);
- 12dbi antenna optional with effect distance up to 8~15m [*];
- Support auto-running, interactive and trigger-activating work mode;
- Low power dissipation with single +9 DC power supply; POE (Power over Ethernet) is optional;
- Support RS232, RS485, Wiegand interface; provide RJ45(TCP/IP), Wi-Fi interface for choice;
- Provide DLL and Demonstration Software Source code to facilitate further development.

  Effective distance depends on antenna, tag and environment.

CHARACTERISTICS

- Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
Operating Temp.	T_{OPR}	-20 ~ +60	℃
Storage Temp.	T_{STR}	-20 ~ +70	℃

- Electrical and Mechanical Specification
  Under T_A＝25℃，VCC＝+9V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	8	9	12	V
Current Dissipation	I_C		350	650	mA
Frequency	F_{REQ}	860	860~868 902~928	928	MHz

INTERFACE

ITEM	COMMENT
Red	+9V
Black	GND
L-Blue	Wiegand DATA0
Blue	Wiegand DATA1
Purple	RS485 R+
Orange	RS485 R-
Brown	GND
White	RS232 RXD
Pink	RS232 TXD
Grey	Trigger input（TTL level）

MECHANICAL DATA (UNIT:mm)
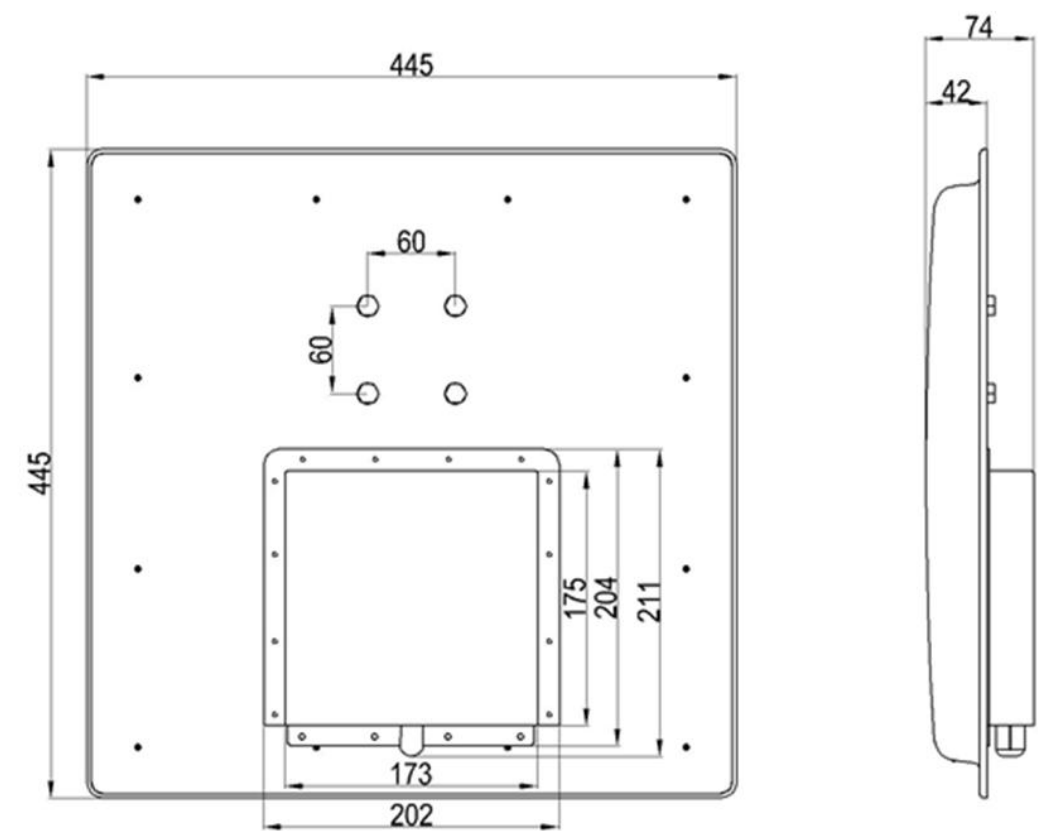
ACCESSORY

Adaptor * 1 pcs   Power Cable * 1 pcs   Bracket * 1 set