

General Description

UHFREADER18 is a high performance UHF RFID integrated reader. It is designed upon fully self-intellectual property. Based on proprietary 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.

FEATURES

- Self-intellectual property;
- Support ISO18000-6B, ISO18000-6C(EPC C1G2) protocol tag;
- 902~928MHz frequency band(frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF output power up to 30dbm(adjustable);
- 8dbi/12dbi antenna optional with effect distance up to 3m/10m*;
- Support auto-running, interactive and trigger-activating work mode;
- Low power dissipation with single +9 DC power supply;
- Support RS232, RS485, Wiegand interface;



* 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}	-10~+55	°C
Storage Temp.	T _{STR}	-20~+75	°C

- Electrical and Mechanical Specification

Under T_A=25°C, 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}	902		928	MHz

Interface

Item	Comment
Red	+9V
Black	GND
Yellow	Wiegand DATA0
Blue	Wiegand DATA1
Purple	RS485 R+
Orange	RS485 R-
Brown	GND
White	RS232 RXD
Green	RS232 TXD
Grey	Trigger input (TTL level)

* Optional model named as UHFReader18TCP with TCP/IP interface is also available.