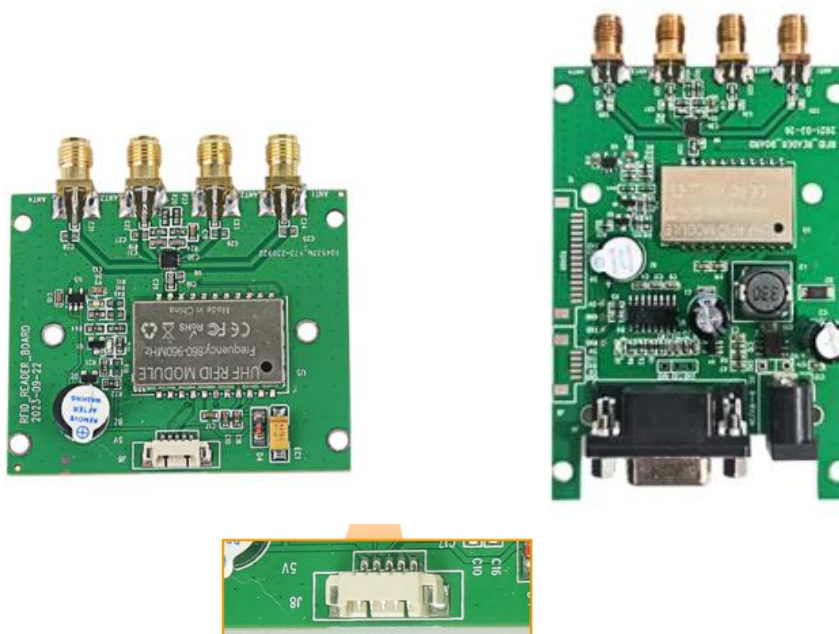


DATASHEET

UHF RFID Reader plus for ISO-18000-6C Protocol

FM-704 UHF RFID Reader



Connectable: RS232、USB、TTL

PIN	Definition	Explain
1	GND	Ground
2	EN	Enable power (>1.5V) High(active) Low(Power down)
3	RX	TTL Level(3.3V),input
4	TX	TTL Level(3.3V),output
5	VCC	DC 3V-5V

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Conditions
Max storage temperature	T _{STOREmax}	+120°C
Min storage temperature	T _{STOREmin}	-60°C
Power supply voltage	V _{IN}	36V
Electrostatic discharge	V _{ESD}	1KV

Recommend Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power Supply voltage	V _{IN}	9	12	36	V
Operating Temperature	T _a	0	-	+50	°C
Storage Temperature	T _s	-40		+85	°C

System Characteristics

Parameter	Description
Interface	UART
RFID protocol	ISO-18000-6C/ EPC class1 gen2
ANT port impedance	50Ω
Operation range	Around 0-10m, dependent on Antenna and TAG

ELECTRICAL CHARACTERISTICS

→AC Electrical Characteristics

(Ta = 25°C, VIN = 5V, VSS = 0V)

Parameter	Symbol	Min.	Typ.	Max.	Unit
RF Output Frequency for reader	F _c	860	-	960	Mhz
RF Output Power	P _{out}	-	-	26.5	dbm
RF Transmission setup time	T _{RF_OUT}	-	-	0.5	ms
RF Frequency error	F _{error}	-	-	1000	ppm
Interrogator Transmit Spurious Emissions, In-Band	In accordance with local regulations				-
Interrogator Transmit Spurious Emissions, Out of-Band	In accordance with local regulations				-
RF Bandwidth	In accordance with local regulations				-
Transmit data rate	T _{Rate}	-	26K	-	bps
Modulation	ASK				
Modulation depth	90% normally				
Data Coding	PIE				
Demodulation	ASK				
Download data rate	D _{Rate}	-	40K	-	bps
Data encoding	FM0				

→DC Electrical Characteristics for Reader mode

(VIN = 5V, VSS = 0V)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Average operating current	I _{oc}	-	280	-	mA
Standby current	I _{SB}	-	-	10	mA
Peak current	I _{peak}	-	300	-	mA
Disable current	I _{dis}		0.7	-	uA