

UHF E710 Module

(Four Port)



General description

ST-M714 is a high performance UHF RFID Module. It is designed based on Impinj E710 chip. 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, and industrial production process control system.

Technical Parameter

Model	ST-M714
Chip solution	Impinj E710 chip
Frequency	865~868MHz (EU),902~928MHz(US)
Protocol	ISO18000-6C (EPC GEN2)
RF power	33dbm (adjuatable)
Receive Sensitivity	≤-87dBm
Inventory Speed	950pcs/s
Work mode	Answer mode,real-time inventory mode
Reading distance	0~15 meter (depends on antenna & tag)
Power supply	3.3~5V DC
Interface	RS232 (TTL 3.3V level)
Antenna port	4 SMA female connector
GPIO	2 input & 2 output
Firmware upgrade	Support

Size	76.5*51*10.1mm
Weight	42g
Working temperature	-20~+55°C
Storage temperature	-20~+85°C

**01** Module dimension:

- Size: 76.5*51*10.1mm
- Weight: 42g



02 Host Interface



No.	Symbol	Comment
1	GND	Ground
2	GND	
3	VCC	Power Supply
4	VCC	
5	GPO1	General output (3.3V TTL level)
6	GPO1	
7	GPI1	General input (3.3V TTL level)
8	BUZZER	Buzzer driver output, high level effective. Current sourcing over 50mA
9	RXD	Serial data input
10	TXD	Serial data output
11	USB-DM	For test only
12	USB-DP	
13	GPI2	General input (3.3V TTL level)
14	EN	Enable. High level effective with internal 10kOhm resistor pulled up to VCC
15	RS485_CTRL	RS-485 direction control