

UHF Intelligent Antenna Multiplexer



Model : SID-MUX-M

Size : 200x105x28mm (Master)

Weight : 500g (Master)

Model : SID-MUX-S

Size : 125x59x17mm (Slave)

Weight: 200g (Slave)

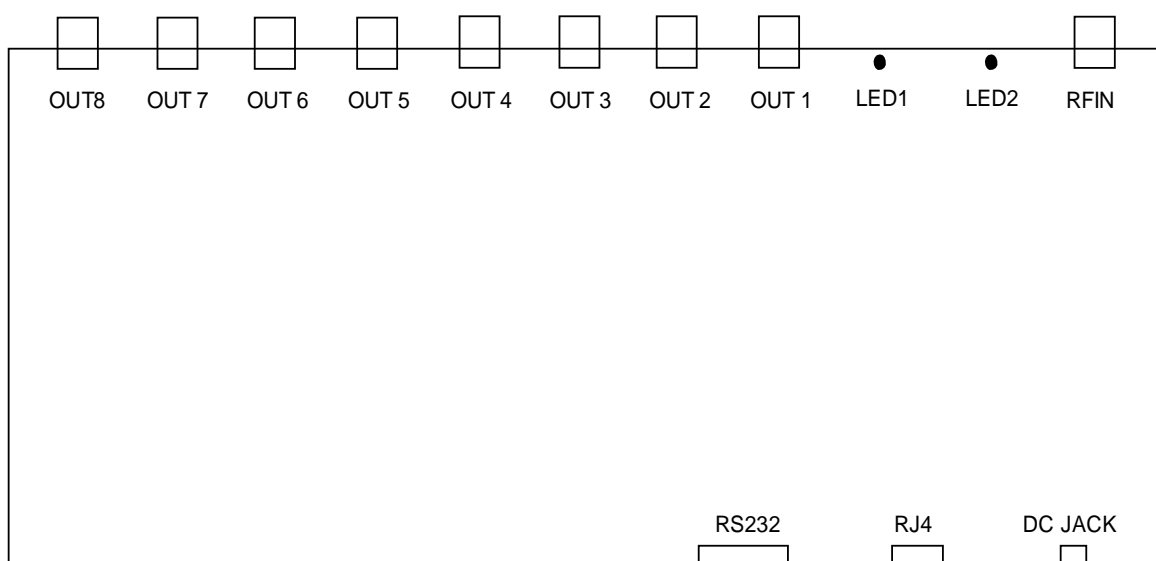
GENERAL DESCRIPTION

Antenna Multiplexer is a high performance UHF antenna multiplexer system for networking and distributing UHF RFID antennae for real-time item level assets tracking and management. It is also an ideal choice for smart shelf, electronic label shelf and other RFID application.

FEATURES

- Self-intellectual property;
- Work frequency 860~960MHz;
- Master and slave unit design;
- All information exchange between master and slave go through RF cable and no extra communication cable needed.
- Master with 1 RF input connecting reader and 8 RF output ports;
- Slave with 1 RF input connecting master, 1 RF output for cascading and 8 RF output for antennae;
- Support 4 level slave cascading;
- Total 256 antennae supported;
- Support antenna scanning for its network topology and plug-and-play;
- Low insertion loss;
- Low power dissipation design with single +9VDC supply;
- Support RS232 and TCP/IP interface;
- High reliability design for harsh environment.

Master Interface



1 Power Supply DC JACK

No.	Symbol	Comment
Central	PWR	+9V power supply
Outer	GND	Ground

2 Serial Port RS232 (DB9 Female)

No.	Symbol	Comment
1	NC	Reserved
2	TXD	RS232 serial data output
3	RXD	RS232 serial data input
4	NC	Reserved
5	GND	Ground
6	NC	Reserved
7	NC	Reserved
8	NC	Reserved
9	NC	Reserved

3 TCP/IP (10M/100M) Socket RJ45

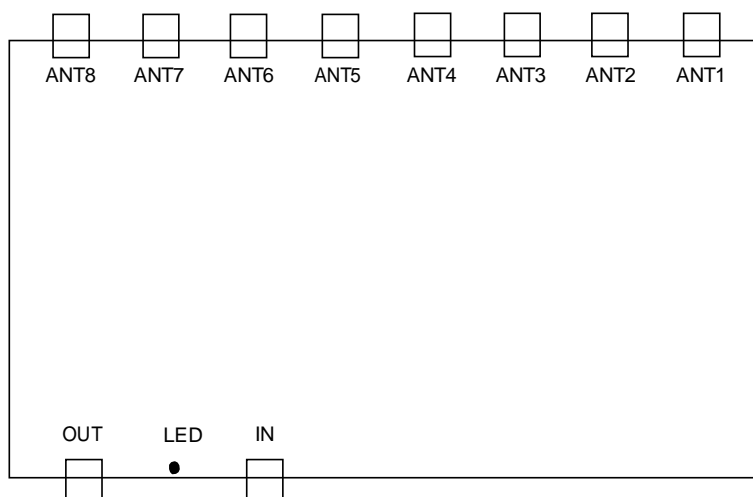
4 MCX (Female) RF Output OUT1~OUT8

5 SMA (Female) RF Input RFIN

6 Indicator

No.	Symbol	Comment
1	LED1	Working indicator
2	LED2	Power on indicator

Slave Interface



1 MCX RF Input IN

2 MCX RF Cascade Output OUT

3 MCX Antenna Port ANT1~ANT8

4 Working Indicator LED

CHARACTERISTICS

- Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	45	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	7	9	40	V
Current Dissipation	I _C	170	200	300	mA
Frequency	F _{REQ}	860		960	MHz
RF Output Power	P _{out}			36	dBm