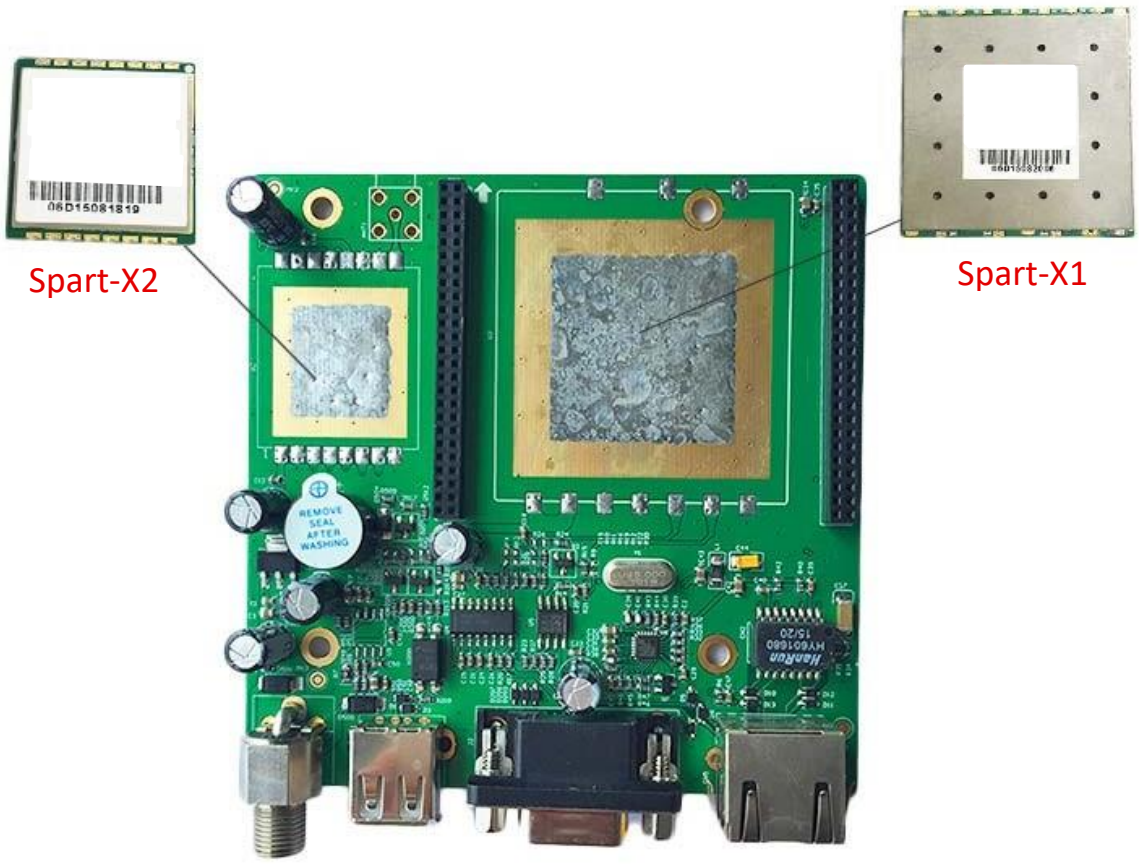
Spart-MOD

Development Board for UHF RFID module



Spart-MOD is partner for UHF RFID reader module, can be compatible with Spart-X1 and Spart-X2 module.

1 Main functions and technical features

1.1 Main functions

Hardware compatible with Spart-X1 and Spart-X2 Telecommunication

port: RS232, RS485, internet port, USB

IO interface: 1 for IO input, 2 for IO output, 1 for wiegand output, IO out and wiegand is same port.

IO interface's level fluctuation trigger the reading function(Response time: <10ms)

Power by adapter and USB

RJ45 interface including network cable, 5V power cable and ground cable, RS485 signal interface.

1.2 Features

Internet port speed rate: 10M/100M automatic.

RS232 serial rate: 115200bps (default), 19200 bps, 9600bps

RS485 rate: 115200bps (default), 19200 bps, 9600bps

Operate under low temperature -20±3℃ for 48hours (read tags), back to indoor temperature read tags normally.

Operate under high temperature -70±3℃ for 48 hours (read tags), back to indoor temperature read tags normally.

1.3 Working environment

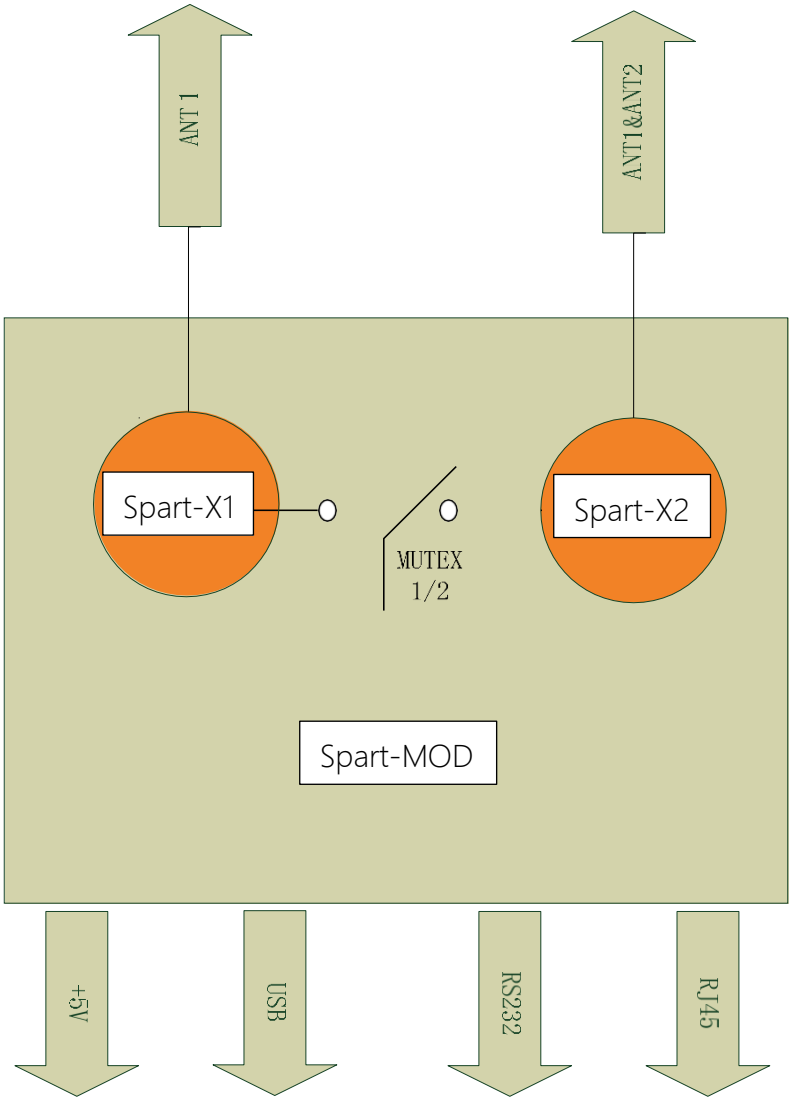
- Working temperature range: -20℃ ~ +70℃
- Relative humidity: 5%RH ~ 90%RH （+25℃）

2. External interface

2.1 Size

105mm×95mm×18mm (excluding accessories)

2.2 Interface photograph



Development board can be compatible with Spart-X1 2 port module and Spart-X2 one port module. But the board only can work with each of them, cannot work both of them at the same time. Development board power up through power port, and communicate with USB/RS232/Network port.

2.3 Interface Definition

RJ45 Interface Definition form

Linear	Color	Definition
1	White, green	Internet data transmitting positive end
2	green	Internet data transmitting negative end
3	White, orange	Internet data receiving positive end
4	Blue	5V power input
5	White, blue	Power ground
6	Orange	Internet data receiving negative end
7	White, brown	RS485 positive
8	Brown	RS485 negative

RS232 Interface Definition form

Linear	Definition
1	NC
2	RXD
3	TXD
4	NC
5	GND
6	NC
7	GPI1
8	GPO1
9	GPO2