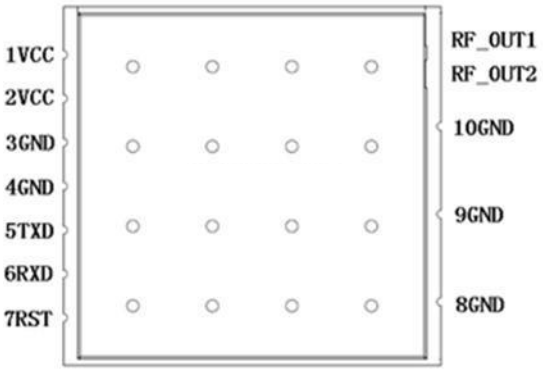
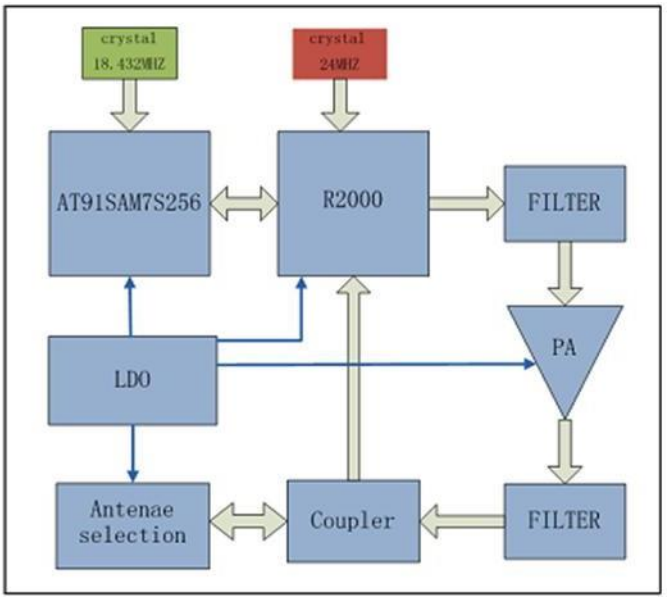
Spart-X1

2-port Long distance UHF RFID Module

For fixed reader / handheld reader integration





FEATURES:

- ✓ **Powerful:** Developed based on Impinj R2000 core platform

- ✓ **Excellent:** Max UHF RFID function
- ✓ **Advanced:** Digital signal processing highly integrated structure
- ✓ **Humanist:**miniaturization design for easier integration application
- ✓ **Omnipotent:**API simplification packed for kinds of device development

TYPICAL APPLICATIONS:

- ✓ Handheld RFID Reader integration
- ✓ Split-type Fixed RFID Reader integration
- ✓ Integrated RFID Reader
- ✓ RFID Tag Writer
- ✓ RFID embedded equipment such as Tag Printer, ATM, anti-counterfeiting equipment, identification system equipment, WMS system channel equipment and so on, intelligent mobile phone, handheld terminal, desktop reader, industrial control device and so

Physical	
Size:	47.5mm x 45mm x 3.9mm
Weight:	25g
Housing Material:	PCB
Power supply:	DC+5V
Consume:	3.25W (at 27dBm)
Antenna interface:	2 port available
UHF RFID	
Protocol:	ISO/IEC18000-6B,6C / EPC C1Gen2
Frequency:	USA:902 MHz-928MHz (FCC part 15) EU:865-868MHz(ETSI EN 302208) CHN:920-925MHz
Decoding method	FM0, Miller 2/4/8

Functions	Read single/multi-tag, write, lock, encrypt, kill the appointed tag
Supported data rate	40k, 160k, 320k, 400k
Output Power:	0dBm-30dBm (±1dBm) adjustable
Maximum output power	950mA @ +25dBm
Power adjustment:	1dBm step-by-step
Channel bandwidth:	＜200KHz
Frequency stability:	≤±10ppm
Output VSWR	≤1.3：1 (depending on antennas)
Interface:	RS-232(TTL)
Work Mode:	Fixed/hop frequency optional
Communication speed	10m/100m self-adaptable
Reading speed	>400times/S
I/O interface	2 optcoupler input/ **2 relay output**
Anti-collision	Excellent ant-collision algorithm, support intensive multi-tag reading
Software	Support RSSI ,antenna/power detection, online update, data cashing, data filtering
Testing condition:	connected with antennas via development board, (2 antenna ports supportable)
Reading Distance:	0-10m (depending on antennas and application environment)
Writing Distance:	0-4m (depending on environment)
Operational Environment	
Working Temperature:	-20 - +70° C
Storage Temperature:	-45 - +85° C
Related humidity:	10%-95%