

Product Specification

Model: 2860

Version: V1.2

File Numbers:

Record any changes :

Revisiondate	Version	RevisionContent	Reviser	Approver
2012.02.10	V1.0		TCW	XXM
2012-3-15	V1.2	Open mold shieldingcover	TCW	XXM

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1. Product Introduction

2860 is a low power consumption, small volume of UHF RFID writing and reading modules. Support ISO18000-6C agreement, able to comply with the agreement standard RFID tags and operation.

2. Product Characteristics

- ◆ Support ISO18000-6C agreement.
- ◆ Ultra-low power output. Less than 0.5 W. Through the software to control module working condition.
- ◆ Low power consumption, wide working voltage range DC 3.8 V-5 V 1 A.
- ◆ Support UART and Wiegand26/43 communication.
- ◆ Small volume, with two fixed mode (patch type module, LCC encapsulation and FPC soft row lines output.) Suitable for handheld devices project integrated applications.
- ◆ The operation is simple, (reading card successful beep hint sound and LED instructions).
- ◆ Antenna with small size interface I-PEX seat and azimuth sex strong ceramic antenna, tag with distance 80-120 CM.

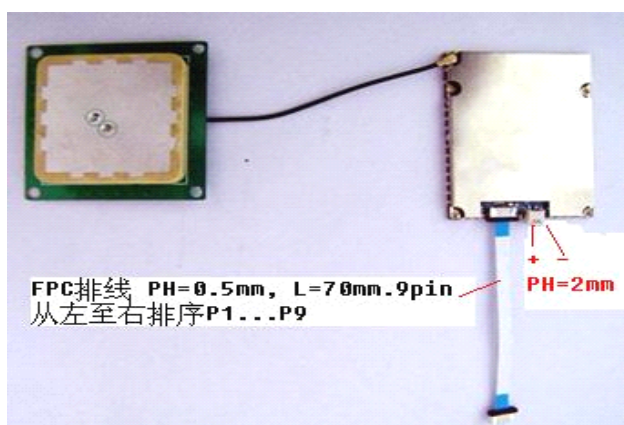
3. Applicable Scope

Can be easily embedded handheld computers, pda, handheld devices such as mobile devices, so as to achieve this kind of equipment RFID function expansion. Used in logistics, warehousing, researchers identify, electronic bills, electric power tour inspection, product quality inspection, parcel tracking and so on many kinds of wireless identification (RFID) system.

4. Product Appearance and Siize

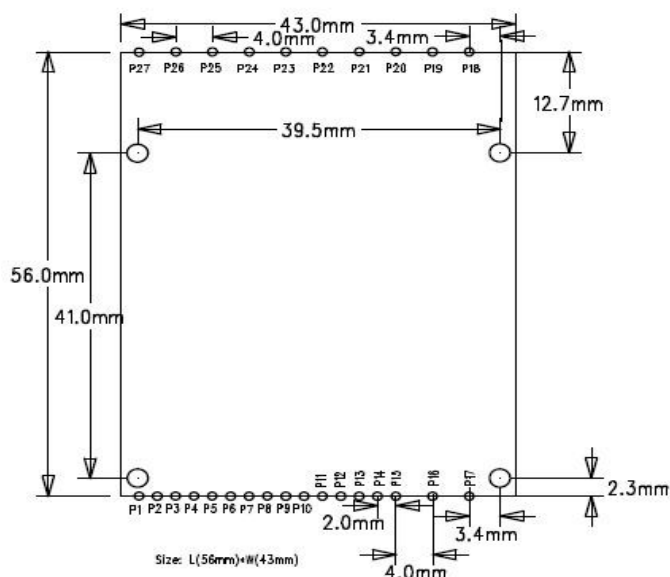
Product Appearance

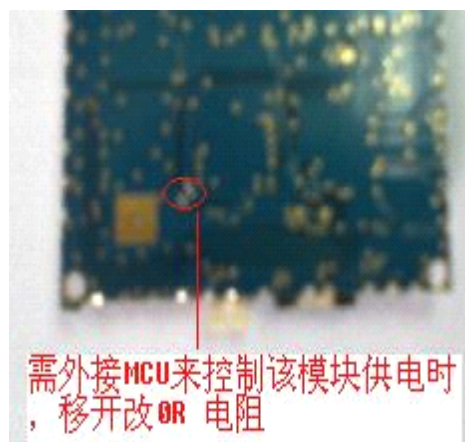
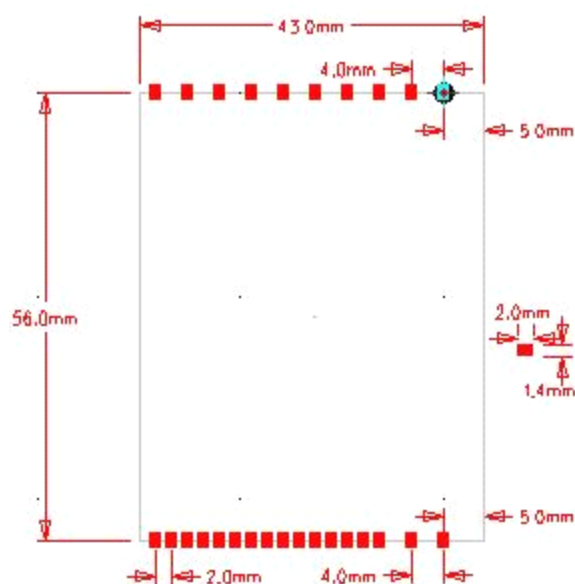
(Size=L(56mm)*W(43mm)*H(4mm))



Suggest PCB encapsulation

PCB Siize figure



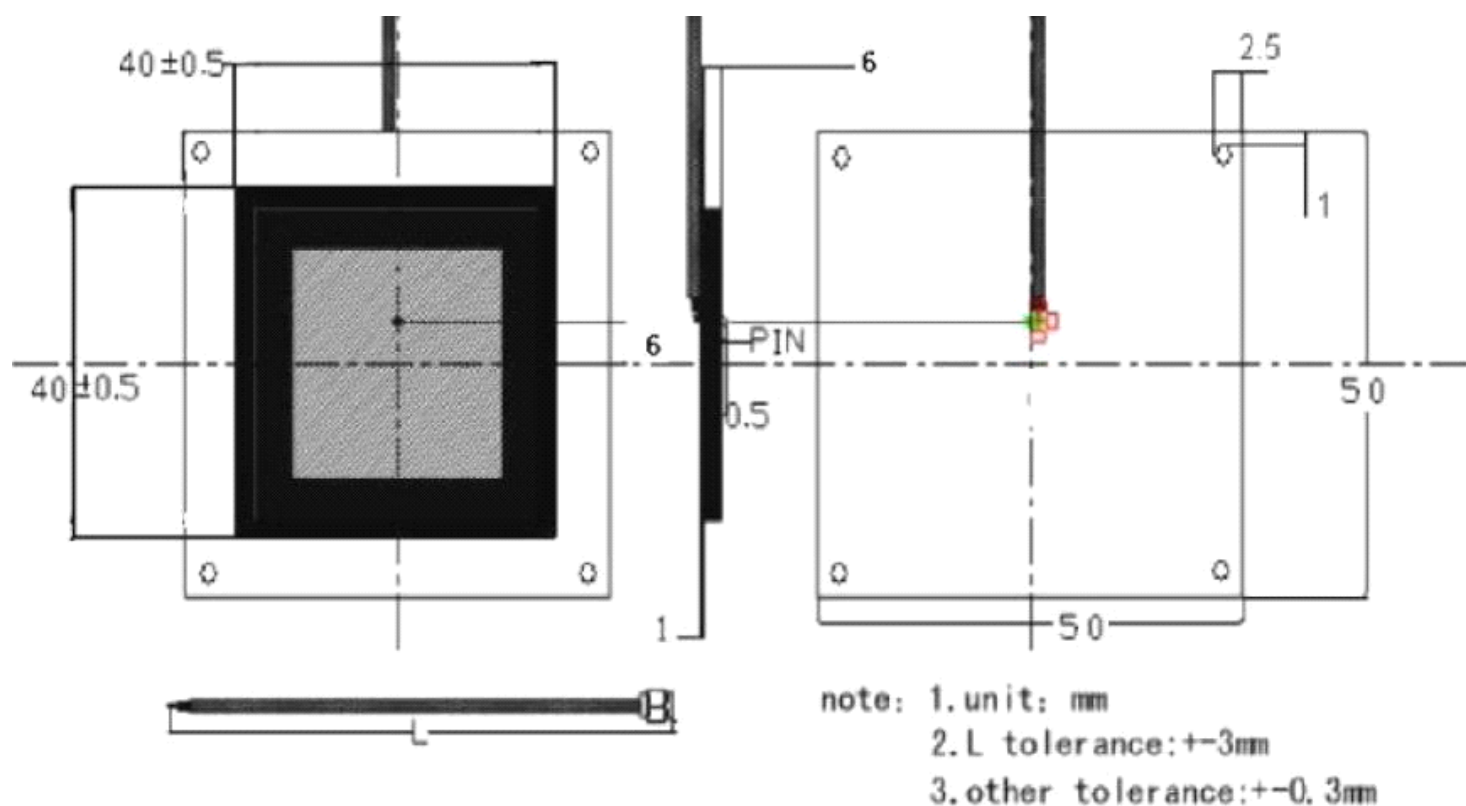


Module underside control module the resistance of the power supply

NOTICE::

This module paste area as far as possible go line, the shop is copper ground handling, and silk screen shortening.

Antenna size chartt



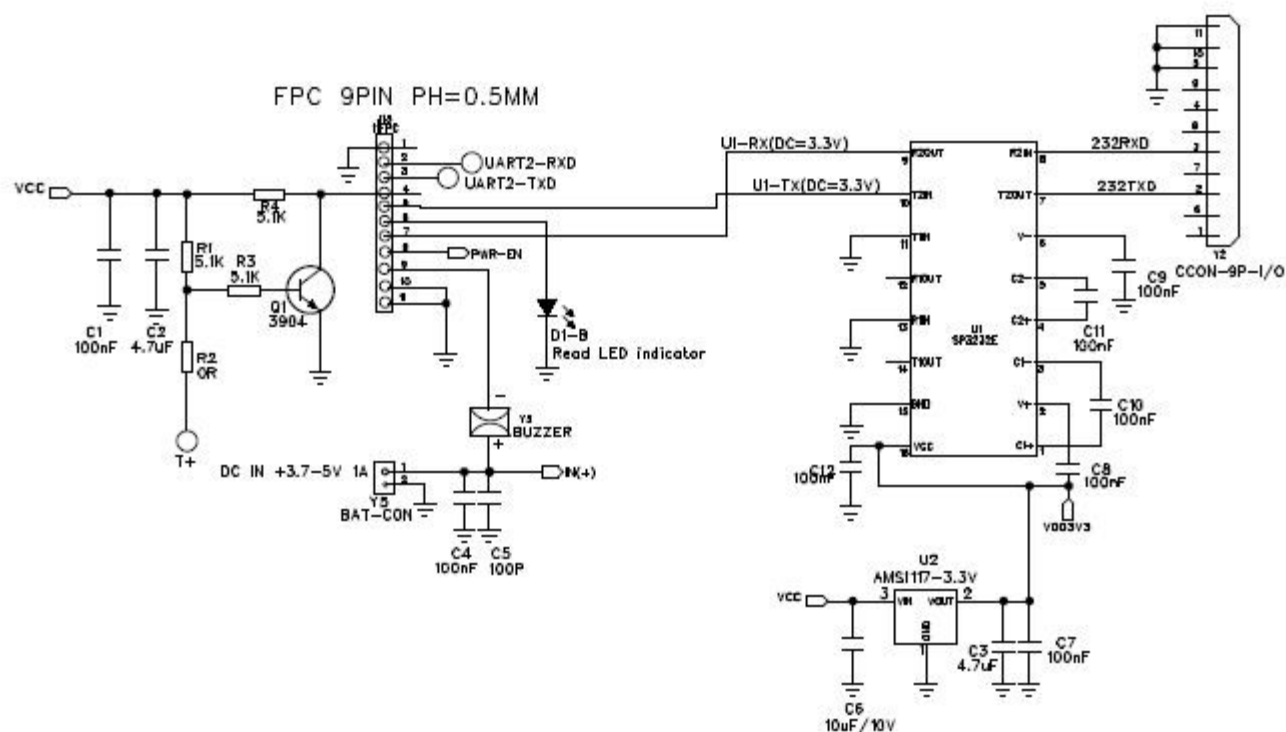
5.FPC PIN definition

Pin number	Pin name	Description
IN-	GND	Grounding Pin
IN(+)	DC(positive) input	For the entire module power supply. This module working voltage range 3.8 5.0VDC, 1 A, ripple less than 50mV.
FPC (From left to right) P1	GND	Grounding Pin.
P2	UART2-RXD	UART2 communication interface, TTL level. Reference applied circuit can realize and external PC serial interface communication..
P3	UART2-TXD	UART2 communication interface, TTL level. Reference applied circuit can realize and external PC serial interface communication..
P4	T+(Trigger detection)	Reference external application circuit, through the DEMO to set the trigger mode can be read card.
P5	UART1-TXD	UART communication interface, TTL level. Reference applied circuit can realize and external PC serial interface communication.
P6	ReadLed Instructions	External reference applied circuit can achieve success when reading card LED light flashing.
P7	UART1_RXD	UART communication interface, TTL level. Reference applied circuit can realize and external PC serial interface communication.
P8	PWR-EN Power Enable pin	The pin can be through the external CPU to shut off and open up the module power supply. To save electricity mode, the low potential module power off. This module factory set often high. (if you need to control module external MCU power supply, the reference).
P9	Buzzer output	Reference external application circuits, the successful reading card issued by a beep.

6.PCB Pin definition

Pin Number	Pin Name	Description
P1	GND	Grounding Pin.
P2	UART2-RXD	UART2 communication interface, TTL level. Reference applied circuit can realize and external PC serial interface communication.
P3	UART2-TXD	UART2 communication interface, TTL level. Reference applied circuit can realize and external PC serial interface communication.
P4	GND	Grounding Pin.
P5	T+(Trigger detection)	Reference external application circuit, through the DEMO to set the trigger mode can be read card.
P6	UART1-TXD	UART1 communication interface, TTL level. Reference applied circuit can realize and external PC serial interface communication.
P7	ReadLed Instructions	External reference applied circuit can achieve success when reading card LED light flashing.
P8	UART1_RXD	UART communication interface, TTL level. Reference applied circuit can realize and external PC serial interface communication.
P9	PWR-EN Power Enablepin	The pin can be through the external CPU to shut off and open up the module power supply. To save electricity mode, the low potential module power off. This module factory set often high. If you need an external MCU control modules to power supply,reference above
P10	Buzzer output	Reference external application circuits, the successful reading card issued by a beep.
P11	DC-IN-	DC input negative. Grounding the Pin
P12	DC-IN+	For the entire module power supply. This module working voltage range 3.8V-5.0 VDC, 1 A, ripple less than 50mV.
P13~P27	GND	Grounding Pin

7.External Application Circuit



8.Technology index

- ❖ Working Frequency: 902MHz~928MHz。
- ❖ Support Agreement: ISO18000-6C。
- ❖ Outputpower: 24dBm。
- ❖ Communication distance: 0.8~1.2m(40mm*40mm, 3dBi Ceramic Antenna)。
- ❖ Antennaconnection mode: I-PEX。
- ❖ Communication mode: Serial agreement, baud rate(9600-115200bps can be set up). The factory default 9600bps.
- ❖ Input voltage: DC3.8~5V 1A , Exchange Ripple \leq 50mV。
- ❖ Power consumption: 1.5W。
- ❖ Working Temperature: -30℃~85℃。