

SIM20 WIRELESS MODULE

The WIRELESS Module for handheld and industry applications

WIRELESS Module

MULTI-CHANNEL LOW POWER WIRELESS COMMUNICATION MODULE

SIM20 is a high integrate half-duplex、 multi-channel low power wireless communication module. It includes high speed MCU and perfect performance RF chip, so it has the high receiving sensitivity, programmable transmitting power and data rate. SIM20 supports the multi-channel choice, transparent date transfer without complex user setting, it supports UART(CMOS/TTL)、 RS232、 RS485、 IIC/SPI、 ADC interface.

The leading features of the module make it ideal for handheld devices, Industry applications and much more.

- Low cost, wireless data transfer
- Wireless sensor
- Remote control/security systems
- Wireless metering
- Wireless medical telemetry service(WMTS)
- Keyless entry
- Home automation
- Process and building control

We make future wireless

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General feature

- Standard
ETSI 300-220, FCC Part 15,
Chinese Short Range Device
regulatory standards
- Support peer to peer transmission
and broadcasting transmission
- Optional 16bits RFID
- Flexible software programmable
setting option
- Frequency bands support
433MHz – 434.79MHz
863MHz – 870MHz
902MHz – 928MHz
- Modulation schemes
2GFSK
- Frequency interval
200KHz
- transmission distance
1000 Meters@1200bps
- Transmit power
20mW, 10 steps adjusting
- Receive sensitivity
-115dBm@1200bps
- Sleep current consumption
5uA
- Tx current consumption
35mA@10dBm
- Rx current consumption
28mA
- Input voltage of the module
3.3V~5.5V(± 50 mV)
- Physical Dimensions
Length x Width x Height:
40mm x 20mm x 2.8mm
- Operation temperature
-20°C ~ 70°C
- Storage temperature
-40°C ~ 85°C
- Humidity
10%~90%

Specifications for data

- Air data rate
1200 – 115200bps
- Interface data rate
1200 – 115200bps
RS232/RS485
- Interface check mode
8E1/8N1/8O1
- Interface buffer size
512bytes

Interfaces:

- RS485 Interface
- UART(CMOS/TTL) Interface
- RS232 Interface
- IIC Interface
- SPI Interface
- ADC Input

More about SIM20 WIRELESS Module

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