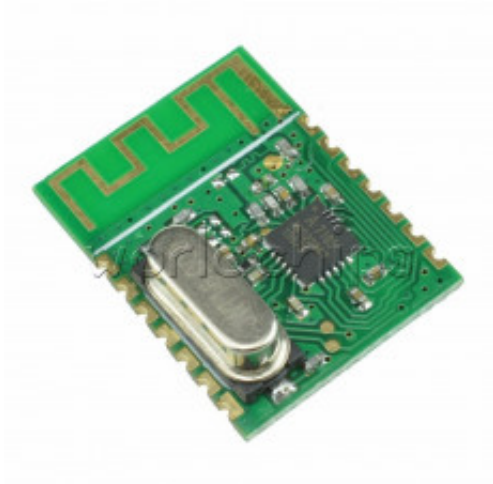


2.4GHz Wireless RF Transceiver



Produktkode: 262aa
Tilgjengelighet: 2
Lager : H10

Pris: kr. 80,00

Short Description

A7105 XL7105-SY-B 2.4G Wireless Transceiver Module

Beskrivelse

A7105 2.4G Wireless Module MD7105-SY Transceiver AA

Description:

Item Name: Transceiver Module

| Item | Specification | Remark |
|-----------------------|---------------------------------------|----------|
| Supply voltage | 2.5V~3.6V | |
| Current consumption | 1uA (typical) @Sleep mode | |
| | 0.3mA (typical) @Idle mode | |
| | 1.7mA (typical) @Stand-by mode | |
| | 9mA (typical) @PLL Mode | |
| | 16mA (typical) @Rx mode | |
| | 20mA (typical) @Tx mode (Pout = 0dBm) | |
| Frequency | 2400 – 2483 MHz | ISM band |
| Transmit output power | 0 dBm @ room temperature | typical |

| | | |
|-----------------------|--|---------------------------|
| Rx sensitivity | -105 dBm (typical) @ 10Kbps mode, Dev = 40 KHz BER1E-3 | |
| | -100 dBm (typical) @ 250Kbps mode, Dev = 93 KHz | |
| | -96 dBm(ypical) @ 500Kbps mode, Dev = 186 KHz | |
| Modulation | FSK or GFSK | |
| Transmission distance | About 100meter | BER1E-3 |
| Interface | 8pin 2.54 mm header | |
| Dimension | 23.3mm(L) x 12.5mm(W) x 5mm(H) | Not include the connector |
| Operating temperature | -40 ~ 85 | |

Interface:

| Pin No. | Symbol | Function Description | Remark |
|---------|--------|--------------------------------|------------|
| 1 | GND | Ground | |
| 2 | Vin | RF Module Supply Voltage Input | 2.5V--3.3V |
| 3 | NC | NO Connection | |
| 4 | SCS | SPI Chip Selection | |
| 5 | SCK | SPI Clock | |
| 6 | SDIO | SPI Data I/O | |
| 7 | GIO1 | General Purpose I/O1 | |
| 8 | GIO2 | General Purpose I/O 2 | |

Features:

XL7105-SY is made by adopting high performance 2.4G wireless transceiver chip A7105 of Taiwan Shengke (AMIC)

Working in 2400-2483M international opened ISM band

The biggest transmission power is 0 dBm(1 mW)500 KBPS

The highest RX sensitivity is -99 dBm @ 250 KBPS,

The distance is as far as 120M

Built-in ID CODE WORD in IC,support CD (carrier detect), FEC error correction

SPI interface, independent 64 bytes RX and TX FIFO.

Cost performance is higher than NRF24L01 and CC2500

Note: this module needs 3.3V power supply, can use voltage chip to reduce the voltage.

Package Included:

1 x Transceiver Module

Arduino bibliotek/dokumentasjon

Bibliotek: <https://github.com/nRF24/RF24>

Dokumentasjon: <https://howtomechatronics.com/tutorials/arduino/arduino-wireless-communication-nrf24l01-tutorial/>