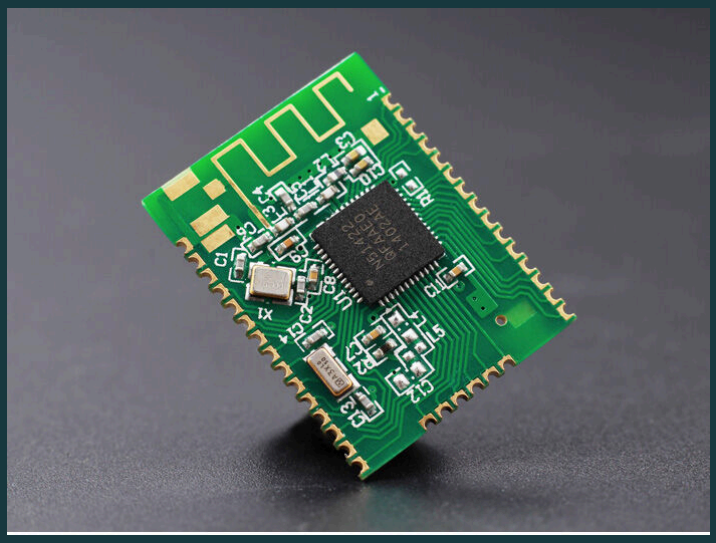
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INDUSTRIAL PRODUCT DATASHEET

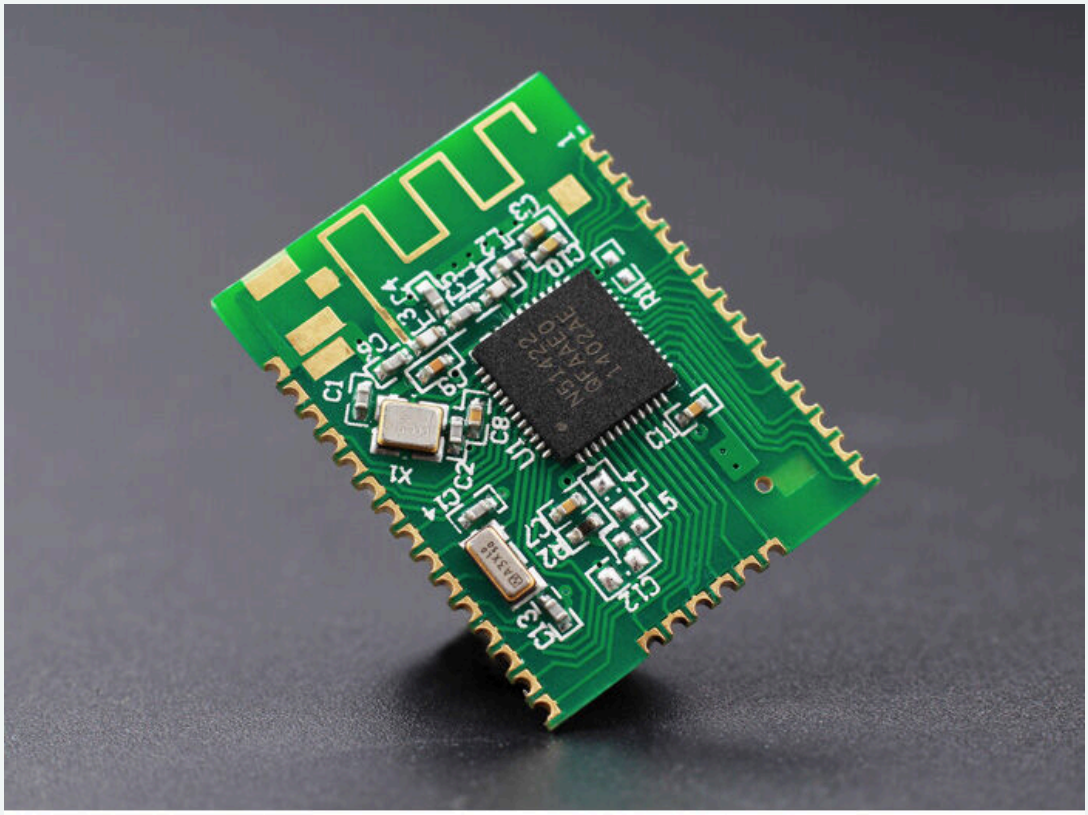
PTR9022 Multiprotocol ANT/BLE Module embedded ARM Cortex

The PTR9022 is an ultra-low power multiprotocol ANT/BLE module based on the Nordic nRF51422 with ARM Cortex-M0, designed for personal area networks, health/fitness sensors, and industrial automation.

SKU	UPDATED	PRICE
113990106	2024-08-09 01:56:54	$6.68(Excl. VAT)



Overview



The PTR9022 is a multiprotocol ANT/Bluetooth Low Energy module from XunTong Technology built on the Nordic nRF51422-QFAA-R SoC with an ARM Cortex-M0 processor, 256 kB flash, and 16 kB RAM. It delivers ultra-low power consumption, -90 dBm sensitivity, TX power up to +4 dBm, and a compact 26 mm x 19 mm x 2 mm footprint with integrated antenna for applications in personal area networks, health/fitness, medical, remote control toys, and home/industrial automation.

Key Features

Multiprotocol ANT / Bluetooth Low Energy (BLE) module , released by XunTong Technology. The modules designed with nRF51422-QFAA-R from NORDIC, high performance and ultra low power consumption, can easily be added in your design and accelerate your development process.

nRF51422 is an ultra-low power 2.4 GHz wireless System on Chip (SoC) integrating the nRF51 series 2.4 GHz

transceiver, a 32 bit ARM

Features:

- Worldwide 2.4G ISM Band, 250 kpbs/1 Mbps/2 Mbps on-air data rate options
- ARM® Cortex™-M0 32 bit processor, 256 kB flash memory, 16 kB RAM.
- TX Power -20 to +4 dBm in 4 dB steps
- -90 dBm sensitivity in ANT mode
- -90 dBm sensitivity in Bluetooth® low energy mode
- 10.5 mA peak TX (0 dBm), 13 mA peak RX,RSSI (1 dBm resolution)
- Flexible real-time counter and Two 16 bit and one 24 bit timers with counter mode
- Rich set of digital interfaces including: SPI, 2-wire , and UART
- Programmable Peripheral Interconnect(PPI)
- 32.768 kHz crystal on board
- 8/9/10 bit ADC – 8 configurable channels
- AES encryption /decryption accelerator
- Minimum Size about 26mmX19mmX2mm with Antenna, 1.27mm pin pitch
- The module design with nRF51422-QFAA-R

Specification:

Applications：

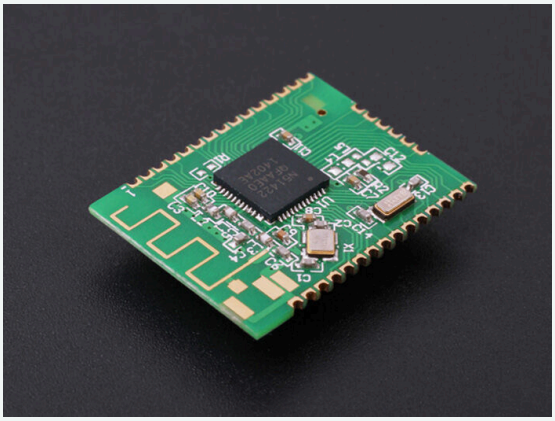
- Personal Area Networks
- Health/fitness sensor and monitor devices
- Medical devices
- Key-fobs + wrist watches
- Remote control toys
- Home/industrial automation
- Environmental sensor networks
- Active RFID

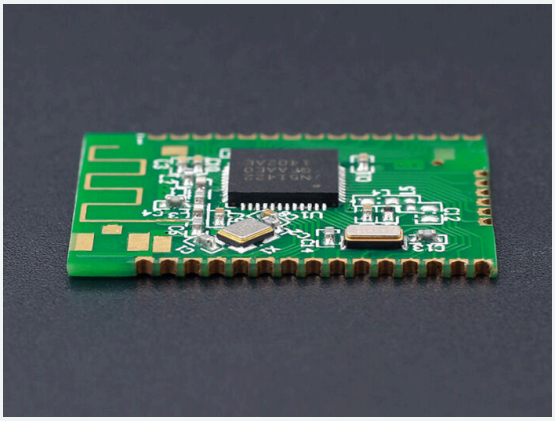
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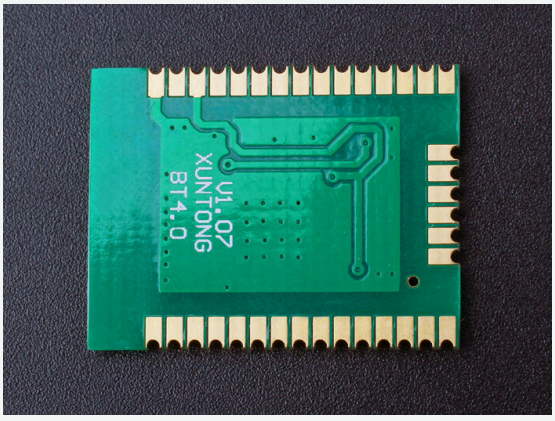
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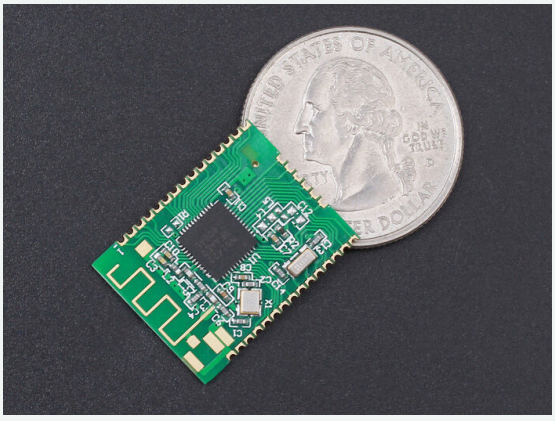
Technical support：shenzhen@freqchina.com

Product Gallery









Resource Links

- https://www.seeedstudio.com/PTR9022-Multiprotocol-ANT-BLE-Module-embedded-ARM-Cortex-p-2414.html

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com