

RADIOTRONIX

Wi.FreeStar ZigBee Ready Modules

Available at:



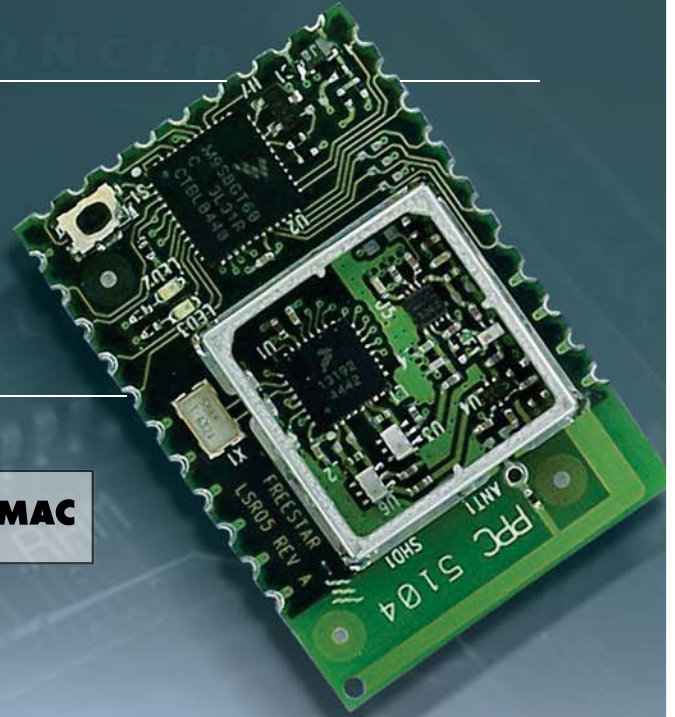
P/N: Wi.FS24-100ST KIT P/N: RK-Wi.FS24-100ST

FEATURES:

1. Communications Modes
 - a. Point-to-point
 - b. Point-to-multipoint
 - c. Mesh (Z-Star only)
2. 4000+ feet line of sight performance
3. Very small form factor 1.4" X 1.0"
4. Integrated PCB Trace Antenna
5. FCC, IC, and CE Certified
6. Direct Sequence Spread Spectrum
7. CSMA-CA
8. Flash-based/upgradeable
9. 10 Bit A/D (2 inputs)
10. General Purpose I/O (8 ports)
11. Microsoft® Windows®-based Configuration and Test Tool
12. Simple Serial UART Interface
13. Over 65,000 network addresses

SPECIFICATIONS:

1. Frequency: 2400 to 2483.5 MHz
2. Output Power: 10mW, 100mW (software controlled)
3. Receiver sensitivity: - 92 dBm @ 1% PER
4. RF data rate: 250 kbps
5. RF channels: 16 (channel 16 is set at a reduced power level)
6. Maximum nodes per network: 65,543
7. FCC/IC/CE certified
8. Voltage input: 2.4 to 3.6V
9. Power consumption:
 - a. Transmit mode:
 - i. 10mWA - 125mA
 - ii. 100mW - 150mA
 - b. Receive mode: < 42mA
 - c. Standby mode: < 5uA
10. Host interface: Serial TTL
11. Operating temperature:
-40 degrees C to 85 degrees C



Long Range Zigbee Performance

The Wi.FreeStar module is designed around the MC13192 RF transceiver from Freescale™, which based on the IEEE802.15.4 standard. The Wi.FreeStar modules is ideally suited for use in a point to point/multipoint networks or in a ZigBee™ mesh applications. The module provides enhanced range performance over standard 802.15.4 or ZigBee implementations with an integrated 100mW power amplifier, allowing the module to communicate over 4000 feet line of sight.

Star or ZigBee™ Mesh

The Wi.FreeStar module uses the MC13192 for the LSR Star protocol and is upgradeable to use the Freescale Bee-Stack™ ZigBee solution. The module includes the MC9S08GT60CFD uP, 100mW power amplifier, power supply, and an inverted-F PCB antenna. The module is FCC and CE certified for fast and simple integration into an end application. Radiotronics can provide product modification to accommodate specific application requirements. The Wi.FreeStar module provide the lowest cost, best in class range in a small form factor.

Partnering With L.S. RESEARCH

Radiotronics has worked closely with LS Research, a leading Zigbee technology company, in the development of these modules. This alliance combines the RF design and manufacturing expertise of Radiotronics with the extensive Zigbee design skill sets and FCC compliance capability of LS Research to provide customers with a great new product, strong support channel, and a flexible design platform.



L.S. RESEARCH

Wireless Product Development



Worldwide Acceptance
FCC (U.S.A.), IC (Canada), ETSI (Europe)

Systems that contain the Wi.FreeStar Modules inherit Radiotronics certification. Contact Radiotronics



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For 24 hour Sales and Tech. Support: www.radiotronics.com/support/