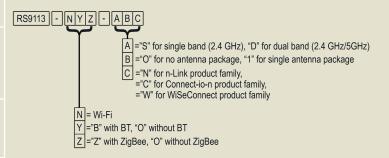
Wireless Specifications

802.15.4-2009 (2.4GHz) Data Rates 802.11n: from 6.5 Mbps to 150 Mbps (MCS 0-7) 802.11a/g: from 6 Mbps to 54 Mbps 802.11b: from 1 Mbps to 11 Mbps Bluetooth: 1, 2, 3Mbps 802.15.4-2009: 250Kbps Modulation Techniques OFDM with BPSK, QPSK, 16-QAM, 64-QAM 802.11b with CCK and DSSS Bluetooth: GFSK, DQPSK, 8DPSK 802.15.4-2009: DSSS 802.11n Advanced Features 1-SS, 40MHz bandwidth, Greenfield Preamble, Short-GI, 1 spatial str	
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802.11n Advanced Features 1-SS, 40MHz bandwidth. Greenfield Preamble. Short-GI. 1 spatial str	
STBC, RIFS, A-MSDU, A-MPDU, Aggregation with Block-ack, A-MSD inside A-MPDU and Virtual AP support	
Bluetooth Advanced Features [†] Scatternet, Adaptive Frequency Hopping, Interlaced scanning, 15 active slaves in proprietary mode, hold, sniff and park modes	
ZigBee Advanced Features CCM* security, orphan scanning, coordinator realignment	
Wi-Fi modes Wi-Fi client, Access point, Wi-Fi Direct	
Bluetooth Modes Master, slave, scatternet [†]	
ZigBee Modes ZigBee Coordinator [†] , Router [†] , End device	
QoS WMM and WMM Power Save Support	
Host Interfaces USB 2.0, SPI, UART	
Other Peripherals/Interfaces I2C, I2S, SPI, QSPI, USART, GPIO, JTAG, Analog(ADC/DAC) and Ultra-low-power peripherals.	
Supply Voltage 3.0-3.6V, 1.8-3.6V	
Operating Temperature Industrial Grade -40°C to +85°C	
Software and Regulatory Certification Wi-Fi Alliance Compliance (802.11bgn, WPA, WPA2 Personal and Enterprise, WMM, WMM-PS, WPS, Wi-Fi Direct™, Voice-Personal ^β ,	
Protected management frames [†]), Cisco CCX v5 [†] , Bluetooth-SIG Qualification [‡] , Worldwide Regulatory Compliance: FCC (IDs are XF6-RS9113SB, XF6-RS9113DB) IC (IDs are 8407A-RS9113SB, 8407A-RS9113DB) CE/ETSI, TELEC [‡] , SRRC [‡]	
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Cisco CCX v5 [†] , Bluetooth-SIG Qualification [‡] , Worldwide Regulatory Compliance: FCC (IDs are XF6-RS9113SB, XF6-RS9113DB) IC (IDs are 8407A-RS9113SB, 8407A-RS9113DB) CE/ETSI, TELEC [‡] , SRRC [‡] Typical Transmit Power(+/-2 dBm) Ui-Fi: 17.5 dBm for 802.11b DSSS 17.5 dBm for 802.11g/n OFDM 12 dBm for 802.11a/g/n OFDM Bluetooth: 15 dBm	

Device Ordering Information

The device numbering is based on the following naming convention. All the devices are labeled as RS9113-XYZ-ABC Where,



Examples:

- RS9113-NBZ-S0N will refer to single band n-Link module with no antenna and integrated Wi-Fi, Bluetooth and Zigbee.
- RS9113-N00-D1C will refer to a dual band Connect-io-n module with embedded single antenna and integrated Wi-Fi.
- RS9113-NB0-S0W will refer to a single band WiSeConnect module with no antenna and integrated Wi-Fi and Bluetooth.

Module Reference Design

Redpine offers form-factor SPI, USB2.0, UART and SDIO reference designs along with software for manufacture testing and diagnostics. For details on availability please contact sales

t: These features are not supported by current software releases. Contact Repine Signals Sales (sales@redpinesignals.com) for details.

‡: These certifications are in progress at this time. Contact Redpine Signals Sales (sales@redpinesignals.com) for more details and for certifications not listed here.

β: Applicable to n-Link[®] modules only

For additional information, please contact Sales at Redpine Signals, Inc.:

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Phone: +1408 748 3385 • Email: sales@redpinesignals.com • Website: www.redpinesignals.com

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