

## Broadband Wireless Communications Solution



- Multi frequency band support (2.4 GHz, 4.9 GHz - 5.9 GHz)
- Software selectable channel size (5, 10, 20 or 40 MHz)
- Point-to-point, point-to-multipoint or mesh (static or dynamic)
- Outdoor enclosures for 2, 4 or 6 radio designs
- PC card (CardBus) form-factor for mobile applications
- Dynamic frequency selection
- AES 128-bit encryption
- High output power option (up to 33 dBm)
- Antenna diversity for up to 15 dB gain
- Battery backup option

**FlexiRadio™** features a family of professional radio products offering unparalleled flexibility in the design of wireless broadband networks. Offering data rates of up to 108 Mbps, FlexiRadio wireless radios can be configured for point-to-point, point-to-multipoint or self-healing mesh architectures. Each radio offers dynamic multi-band capabilities, covering unlicensed 2.4 GHz / 5.x GHz spectrum and licensed public safety (4.9 GHz) and ITS (5.9 GHz; DSRC) spectrum, making the FlexiRadio solution ultimately suitable for government, public safety, video surveillance and ITS applications.

*Ultimate flexibility building reliable  
wireless broadband networks*



# Specifications:

## Radio Specifications

<b>Radio interface</b>	IEEE 802.11a/b/g PS (Public Safety), based on 802.11a ITS (Intelligent Transportation System), based on 802.11a
<b>Modulation scheme</b>	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
<b>Frequency support</b>	ISM: 2.4-2.4835 GHz UNII: 5.15-5.25, 5.25-5.35, 5.47-5.725, 5.725-5.825 GHz PS: 4.940-4.990 GHz ITS: 5.850-5.925 GHz
<b>Channel bandwidth</b>	5, 10, 20, 40 MHz
<b>Output power</b>	20 dBm (FR-100, FR-200/210) (higher power available as option)
<b>Sensitivity</b>	Data rate (Mbps): 54 48 36 24 18 12 9 6 1 20 MHz channel: -72 -74 -81 -84 -86 -88 -89 -91 -99 10 MHz channel: -77 -84 -87 -89 -91 -99 5 MHz channel: -80 -87 -90 -99

## Features

<b>Operating modes</b>	Access Point, Wireless Bridge, Client, Ad-Hoc, Mesh
<b>Security</b>	IEEE 802.1x network access control, RADIUS WEP 152/128/64-bit, AES 128-bit, WPA, WPA2, TKIP
<b>Quality of service</b>	IEEE 802.1p / 802.1q, WME (Wireless Media Extension)
<b>Interference</b>	Transmit power control
<b>Management</b>	Wi4Net Management Utility, SNMP, Telnet

## Electrical and Environmental

<b>Operating temperature</b>	-20°C to 55°C (95% non-condensing) (FR-100 with any outdoor enclosure) (Heater option available for extreme conditions) -10°C to 55°C (95% non-condensing) (FR-200/210)
<b>Input voltage</b>	110-240 V <sub>AC</sub> , 12 V <sub>DC</sub> (FR-200/210 receives input voltage (DC) through CardBus interface)

## Standards

<b>FCC</b>	Part 15, Part 90, ET Docket 003-201 R&O, Bulletin OET-65C
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