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

Radio interface
- IEEE 802.11a/b/g
- PS (Public Safety), based on 802.11a
- ITS (Intelligent Transportation System), based on 802.11a

Modulation scheme
- OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

Frequency support
- 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

Channel bandwidth
- 5, 10, 20, 40 MHz

Output power
- 20 dBm (FR-100, FR-200/210)
  (higher power available as option)

Sensitivity
- Data rate (Mbps):
  54 48 36 24 18 12 9 6 1
  20 MHz channel:
    -72 -74 -81 -84 -88 -89 -91 -99
  10 MHz channel:
    -77 -84 -87 -89 -91 -99
  5 MHz channel:
    -80 -87 -90 -99

Features

Operating modes
- Access Point, Wireless Bridge, Client, Ad-Hoc, Mesh

Security
- IEEE 802.1x network access control, RADIUS
- WEP 152/128/64-bit, AES 128-bit, WPA, WPA2, TKIP

Quality of service
- IEEE 802.1p / 802.1q, WME (Wireless Media Extension)

Interference
- Transmit power control

Management
- Wi4Net Management Utility, SNMP, Telnet

Electrical and Environmental

Operating temperature
- -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)

Input voltage
- 110-240 VAC, 12 VDC
  (FR-200/210 receives input voltage (DC) through CardBus interface)

Standards

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