

# RavenXT-series

## Sierra Wireless AirLink Digital Cellular Modems

The RavenXT-series are full-duplex modems that transmit data to the local cellular tower. A PC retrieves the data from the cellular tower via the Internet<sup>1</sup>. Internet communications provide faster communication rates and eliminate dialing delays and long distance fees.

The following modems are offered:

- **RavenXT-Bell**— Code Division Multiple Access (CDMA) modem configured for Bell networks
- **RavenXT-Telus**—CDMA modem configured for Telus Wireless networks
- **RavenXT-Rogers**—General Packet Radio Service (GPRS) modem configured for Rogers networks



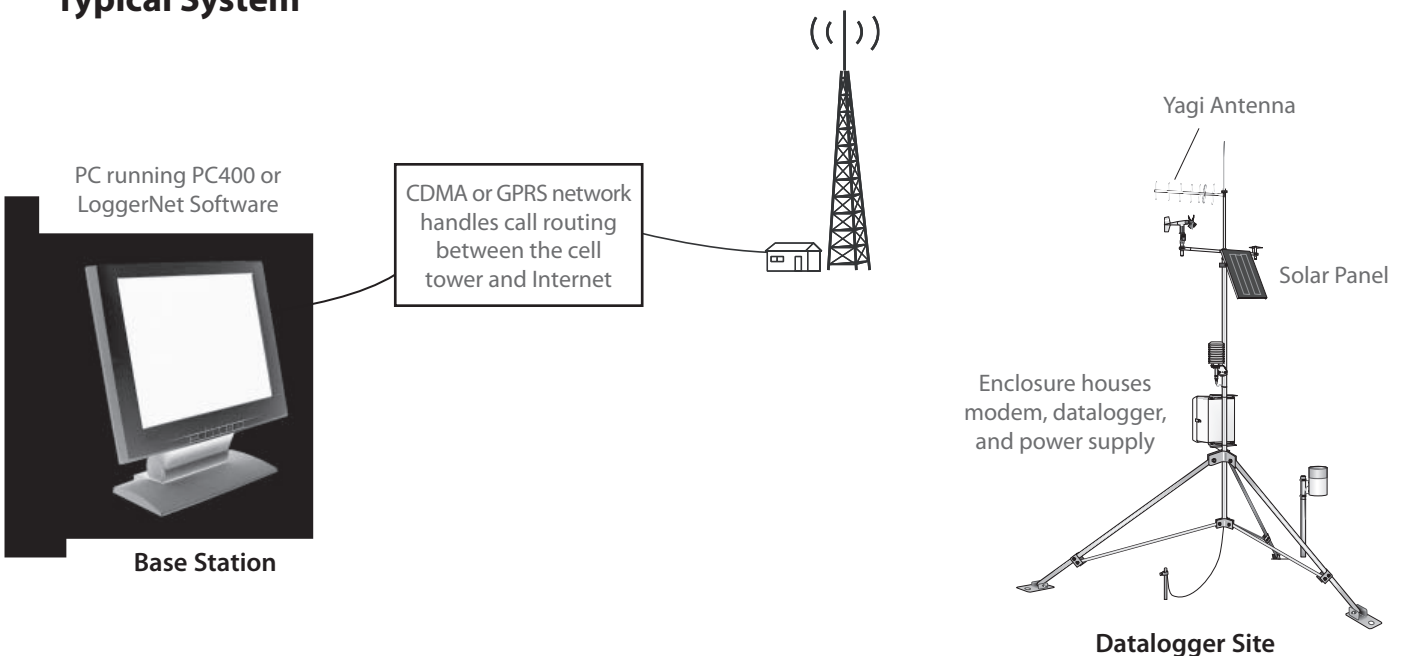
### Features

- Eliminates the dialing delays and long distance fees that land-line phone modems experience
- Allows simultaneous communications with multiple dataloggers in the network
- Housed in a rugged aluminum case
- Operates over a wide operating temperature range (see specifications)

### Cellular Coverage

Prior to purchase of the digital cellular modem, ensure that there is a CDMA or GPRS network with coverage at the datalogger site. Contact your service provider, or view their website for coverage information.

### Typical System<sup>1</sup>



<sup>1</sup>The RavenXT- Bell/Telus use 1xRTT/EVDO to communicate over the Internet.

### Enclosures and Mounting Bracket

An ENC12/14, ENC14/16, or ENC16/18 environmental enclosure can house the modem, datalogger, and power supply. The modem is secured to the enclosure's backplate via the L-14394 Mounting Bracket.

### Base Station Requirements

- PC running PC400 or LoggerNet Datalogger Support Software.
- Access to the Internet.

## Specifications

	RavenXT-Bell & RavenXT-Telus	Raven XT-Rogers
<b>Technology</b>	CDMA 1xRTT, EVDO Rev. A, CDMA IS-95, dual band	GPRS (MS-12), quad band
<b>Bands</b>	<b>Dual band:</b> 800 MHz Cellular, 1900 MHz PCS	<b>Quad band:</b> 850/1900 MHz; 900/1800 MHz
<b>Transmit Frequency</b>	1850 to 1910 MHz and 824 to 849 MHz	<b>850/1900 MHz:</b> 824 to 849 MHz; 1850 to 1910 MHz <b>900/1800 MHz:</b> 890 to 915 MHz; 1710 to 1785 MHz
<b>Transmit Power</b>	1.0 W for 1900 MHz; 0.8 W for 850 MHz	1.0 W for 1900 MHz; 0.8 W for 850 MHz
<b>Receiver Frequency</b>	1930 to 1990 MHz and 869 to 894 MHz	<b>850/1900 MHz:</b> 869 to 894 MHz; 1930 to 1990 MHz <b>900/1800 MHz:</b> 935 to 960 MHz; 1805 to 1880 MHz
<b>CDMA or GPRS Throughput</b>	up to 80 kbps (CDMA)	up to 70 kbps (GPRS)
<b>RS-232 Data Rates</b>	1200 bps to 115.2 kbps	1200 bps to 115.2 kbps
<b>Serial Interface</b>	RS-232, DB9-F	RS-232, DB9-F
<b>Serial Protocols</b>	AT Commands, PPP, SLIP, UDP/IP, TCP/IP	AT Commands, PPP, SLIP, UDP, TCP
<b>RF Antenna Connector</b>	50 Ohm SMA	50 Ohm SMA
<b>Input Current Range</b>	50 to 250 mA	40 to 250 mA
<b>Typical Current Drain (at 12 Vdc)</b>	50 mA dormant (idle for 10 to 20 seconds), 120 mA transmit/receive	50 mA dormant (idle for 10 to 20 seconds), 120 mA transmit/receive
<b>Input Voltage Range</b>	6 to 28 Vdc	6 to 28 Vdc
<b>Operating Temperature Range</b>	-30° to +70°C	-30° to +65°C
<b>Operating Humidity Range</b>	5% to 95% RH non-condensing	5% to 95% RH non-condensing
<b>Status LEDs</b>	Power, Network, Signal, Activity	Power, Network, Signal, Activity
<b>Dimensions</b>	3"W x 1"D x 4"L (7.6 x 2.5 x 10 cm)	3"W x 1"D x 4"L (7.6 x 2.5 x 10 cm)
<b>Weight</b>	<1 lb (<0.5 kg)	<1 lb (<0.5 kg)

