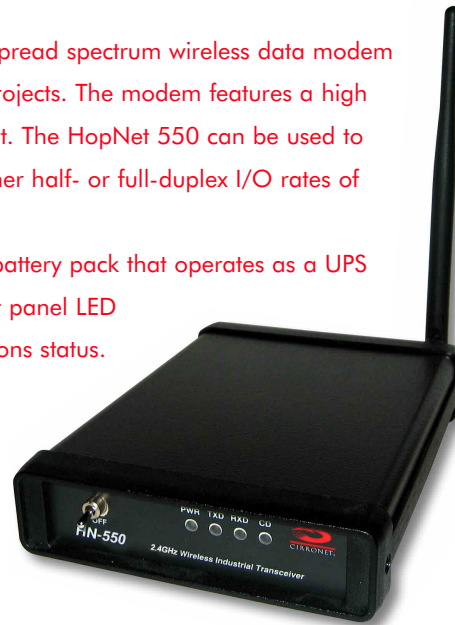


HOPNET 550 2.4GHz FREQUENCY HOPPING WIRELESS DATA MODEM

The HopNet 550 is a 2.4GHz frequency hopping spread spectrum wireless data modem intended for demanding wireless data systems integration projects. The modem features a high data rate (460Kbps) and an indoor range of up to 1000 feet. The HopNet 550 can be used to build point-to-point or point-to-multipoint networks, with either half- or full-duplex I/O rates of 230.4Kbps, asynchronous via the RS-232 serial port (DB-9).

The HopNet 550 also has a built-in rechargeable battery pack that operates as a UPS or allows temporary operation remote from AC power. Front panel LED indicators provide information on modem and communications status.

Connection to the HopNet 550 is through a standard DB-9 connector supporting an RS-232 interface. The HopNet 550 modem comes complete with a rubber whip, right angle 2dB omni-directional antenna and wall-mount power supply.



The HN-550 is a versatile, multi-purpose 2.4GHz frequency hopping spread spectrum wireless data modem. Built around the WIT2450 radio, the HN-550 comes complete with an antenna, serial cable and graphical configuration program.

Communication with the HN-550 is through an asynchronous serial port supporting a standard RS-232 interface and configurable to most standard baud rates.

The HN-550 communicates over the air at 460Kbps and supports both point-to-point and point-to-multipoint networks. With a rugged yet stylish enclosure, the HN-550 is perfect for desktop use. The HN-550 transmits at either +8dBm, +18dBm and +24dBm.

For situations where extended range and/or transmission around obstructions is needed, the HN-550 also supports store-and-forward repeating while operating as a node.

Based on Cirronet's WIT2450 spread spectrum frequency-hopping radio, the HN-550 has exceptional multipath fade rejection as well as immunity to jamming. The WIT2450 is based on field proven technology that delivers robust, reliable real world performance.

The HN-550 is FCC, CE, and IC certified and operates in the license-free 2.4GHz band.

The HN-550 is an invaluable tool for real-time site surveys and proofing of a proposed wireless system concept. Its small size and built-in battery pack make it easy to carry and use on-site.

Let us be your experts. Cirronet has delivered high-performance wireless products since 1987. To find out how to put our experience to work for you, call **+1.678.684.2000** or visit our website at **www.cirronet.com**

Features:

- 2.4GHz frequency hopping spread spectrum technology
- 460Kbps over the air and 230.4Kbps I/O data rates
- Store and forward repeating while operating as a node
- 86 hopping channels
- FCC certified
- 2dB rubber whip antenna
- RS-232 asynchronous serial interface

Benefits:

- Exceptional immunity to multipath fading and jamming
- Supports high speed applications needing long range
- Co-location of multiple networks without interference
- License-free application
- Cost-effective, simple installation
- Connects to standard PC serial ports



HN-550 SPECIFICATIONS

Product	HN-550
Frequency Band	2401-2480 MHz
Operating Range	1000' indoors
Licensing	Unlicensed operation under FCC Part 15, ETS300.328
Number of Channels	86, 50 software selectable
Error Detection and Correction	24 bit CRC and ARQ
I/O Data Rates	Up to 230.4 Kbps, software selectable
RF Channel Rate	460 Kbps
Serial Data Interface	Async. RS-232
RF Bandwidth	750 KHz
Modulation Type	GMSK
Output Impedance	50 ohms
Network Protocol	ARQ: TDMA
Transmit Power	+8dBm, +18dBm and +24dBm
Receive Sensitivity	-93 dBm for 10 ⁻⁵ BER
Supply Voltage	5 Vdc

MECHANICAL SPECIFICATIONS

Product	HN-550
Antenna	4" rubber whip
Case Materials	Ruggedized aluminum
Dimensions (mm)	160 x 115 x 30
Weight excl. cable	378g
Antenna Connector	Reverse SMA
Data Connector	9-pin D
Power Connector	2 terminal connector

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	-40°C to +70°C
Humidity	95% at +40°C, non-condensing

HN-550 COMPONENTS

HN-550 and antenna



Power supply