

## DNT900DK

### 900 MHz FHSS Transceiver Module with I/O Development Kit

#### General Overview

The DNT900 Development Kit is available as part number: DNT900DK

The DNT900 FHSS transceiver module is a low cost, high-power solution for point-to- I/O point and point-to-multipoint wireless systems in the 900 MHz ISM band. The RF output power of the DNT900 can be set from 1 mW to 1 W, and the RF data rate can be set from 38.4 to 500 kb/s. The DNT900 receiver includes a low-noise preamplifier protected by two SAW filters, providing an excellent combination of receiver sensitivity and out-ofband interference rejection. The DNT900 module includes analog, digital and serial I/O, providing the flexibility and versatility to serve applications ranging from cable replacements to sensor networks. The DNT900 transceiver module is easy to integrate and provides robust wireless communications up to 40 miles in line-of-sight installations.

#### Kit Includes:

- Two DNT900P radios installed in DNT900 interface boards (labeled Base and Remote)
- Two 2 dBi dipole antennas with two U.FL coaxial jumper cables
- Two 9 V wall-plug power suppliers, 120/240 VAC, plus two 9 V batteries (not shown above)
- Two RJ-45/DB-9F cable assemblies, one RJ-11/DB-9F cable assembly, two A/B USB cables
- One DNT900DK documentation and software CD

#### Items Needed:

- One PC with Microsoft Windows XP or Vista Operating System. The PC must be equipped with a USB port or a serial port capable of operation at 9.6 kb/s.

#### Key Features:

- 900 MHz Frequency Hopping Spread Spectrum Transceiver
- Point-to-Point and Point-to-Multipoint Network Topologies
- Transmitter Power Configurable from 1 mW to 1 W
- RF Data Rate Configurable from 38.4 to 500 kbps
- Serial Port Rate up to 460.8 kbps for Streaming Applications
- 128-Bit AES Encryption
- Separate Serial Port for Diagnostics
- Analog and Digital I/O for Sensor Applications
- FCC and Canadian IC Certified for Unlicensed Operation

