DN-900G Low Cost FHSS Serial Modem

900 MHz multi-purpose serial modems

The DN-900G Series wireless modems are a versatile line of low cost general purpose serial modems operating in the 900 MHz ISM unlicensed band. The serial modems provide wireless replacement for RS-232 cable in office and factory environments, and can also serve as a platform for multi-drop RS-485 networks in industrial settings

Built around and powered by RFM's field proven FHSS DNT900 radio modules, these frequency hopping wireless modems offer exceptional rejection to multi-path fading and immunity from jamming from other RF signals, thus offering robust and reliable communications in harsh and hostile industrial environments.

The DN-900G Serial modems are available with RS-232, USB and RS-485 interfaces in IP66 NEMA 4X weatherproof enclosures with aluminum mounting flanges. With a 6 dBI integrated antenna, these single piece units are simple to install.

The DN-900 Series modems provide both point-to-point and point-to-multipoint and peer-to-peer and tree routing topologies. The modems can also serve as base stations or remote stations for DNT900 radio networks. For more demanding applications, the DN-900G series modems are user configurable to support a wide variety of different performance needs.

Combined with the high performance, versatility and small size, these single piece modems come complete with universal power supplies and mounting flanges and are priced to fit any budget to deliver unsurpassed value.

Top Features
- RF Data Rates: 38.4, 115.2, 200 and 500 Kbps
- Transmitter Power: 1, 10, 100, 250, 500 and 1000 mW
- 128-Bit AES Encryption for enhanced data security
- Available with RS-232, USB and half duplex RS-485 interfaces
- FCC and Canadian IC Certified

Key Benefits
- Easy installation in a wide variety of applications
- Provides low cost robust communications
- Excellent range from 10s of meters to kilometers
- Moderate to High Data rates
- Operation in noisy RF environments is required
- Multiple remote connectivity and co-located networks coverage

SPECIFICATION

Modulation:	FHSS (Frequency Hopping Spread Spectrum)
Frequency:	902.75 – 927.25 MHz
Transmit Power:	1, 10, 100, 250, 500 and 1000 mW
RF Data Rates:	38.4, 115.2, 200 and 500 Kbps
Receiver Sensitivity:	-108 dBm 10-5 BER @ 38.4 kbps typical
Data Encryption:	128-Bit AES
Network:	Point to Point, Point to Multipoint, Peer-to-Peer, tree routing
Environmental:	-40ºC to +85ºC , 10 - 90% humidity, non-condensing
Power Supply:	+9 V to +48 VDC
Dimensions:	130mm x 79mm x 35mm
Certification:	FCC and Canadian IC certified

HOW TO BUY

RFM products are sold through a world-wide network of manufacturer's reps and distributors. Go to the RFM website at www.RFM.com and visit the "How to Buy" section to locate a sales / distribution partner near you.

Part Number	Description
DN-900G	Multi-purpose 900 MHz FHSS wireless data modem with RS-232. Communicates through a serial port with flexible data rates. Supports point-to-point, point-to-multipoint, peer-to-peer and tree routing topologies
DN-900GI	Multi-purpose 900 MHz FHSS wireless data modem with RS-485. Communicates through a serial port with flexible data rates. Supports point-to-point, point-to-multipoint, peer-to-peer and tree routing topologies
DN-900GU	Multi-purpose 900 MHz FHSS wireless data modem with USB. Communicates through a serial port with flexible data rates. Supports point-to-point, point-to-multipoint, peer-to-peer and tree routing topologies

For more information visit **www.RFM.com**

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