



Model 2070-6W Spread Spectrum Radio

Description

The GDI Frequency Hopper line of spread spectrum radios provides an off-the-shelf, ready-to-install solution to a number of long-range communication applications. The product was designed from the ground up with emphasis on performance, reliability, and flexibility and has been qualified under the most stringent temperature, shock, and vibration.

Interference Blocking

Through the use of a proprietary hardware and software technology, The GDI frequency hopping radios are virtually immune to most RF interference (cell phones, pagers, other wireless systems, etc.).

Network Configurations

The GDI products can be set up for a wide variety of network configurations. These configurations include point-to-point, multi-point-to-point, "star" networks, and point-to-multipoint links.

FEATURES

- Supports up to 1.2Mbps (higher rates available, contact GDI for details)
- Quad Filter Stage provides Extreme Noise & Interference Rejection
- Supports Point-to-Point, Point-to-Multipoint, Store and Forward Repeater, TDMA
- Maximum allowable transit power (1W)
- Low Power consumption in Sleep and Sniff modes
- 32 bits of CRC, selectable Forward Error Correction with retransmit
- Separate diagnostics port—transparent remote diagnosis and online network control



Model 2070-6W Spread Spectrum Radio Specifications

GENERAL	2070-6W
Frequency	902-928 MHz
Spread Spectrum Type	Frequency hopping, DTS
Network Topology	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer
Forward Error Detection	Hamming, BCH, Golay, Reed-Solomon
Serial Data Interface	RS-232/422/485
I/O Data Rate	Up to 230.4 kbps asynchronous - Up to 3.2 Mbps synchronous
Encryption	Optional (See AES option)
Power Requirements	
Supply Voltage	Supplied by 2070
Transmit Power Consumption	300-450mA
Receive Current	50-95 mA
Standby Mode	20mA
Physical Properties	
Form Factor	Type 2070
Environmental	-40°C to 85°C
Antenna Connector	RSMA
Data Connector	DB9F
RF Specifications	
Transmit Power	100 mW—1W (20-30dBm)
Receive Sensitivity	-108 dBm @10 ⁻⁶
RF Data Rate	Up to 1.3824 Mbps (higher rates available, contact GDI for details)
Options	
-AES	128-bit AES Encryption (requires permit for export outside of Canada and USA.)
-AES256	256-bit AES Encryption (requires permit for export outside of Canada and USA.)

Specifications subject to change without notice

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