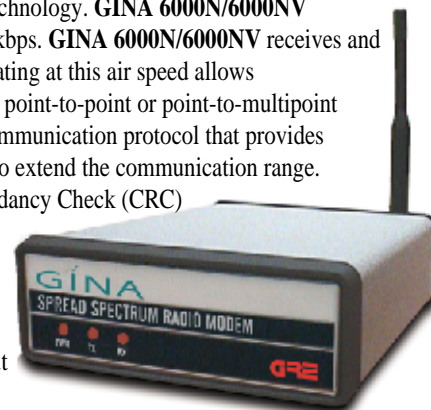


GINA™ MODEL 6000N/6000NV RADIO MODEM

GINA 6000N/6000NV is a stand alone, high frequency data transceiver that uses spread spectrum technology. GINA 6000N/6000NV uses a standard RS-232 serial data interface that can be driven asynchronously at rates of up to 38.4 kbps. GINA 6000N/6000NV receives and transmits data in the frequency range of 902 to 928 MHz at air speeds of up to 128 kbps. Communicating at this air speed allows GINA 6000N/6000NV to be a duplex link. GINA 6000N/6000NV can be configured to be used as a point-to-point or point-to-multipoint communication device. GINA 6000N/6000NV contains a packet controller module with a custom communication protocol that provides communications handshaking, error detection, retry, packet sequencing, flow control, and repeaters to extend the communication range. GINA 6000N/6000NV implements a subset of standard packet framing with a built in Cyclic Redundancy Check (CRC) and High Level Data Link Control (HDLC). The protocol used is a modified X.25 protocol. GINA 6000N/6000NV will automatically resend all information until it is completely received with no errors in the point-to-point mode. The point-to-point mode assures extremely accurate data transmission. GINA 6000NV is equipped with an option of Voice communication RJ22 jack to aid in testing and setting up between Radios that are far apart. It is also convenient feature to test the Output power or Antenna VSWR.



GINA 6000N/6000NV SPECIFICATIONS

Adjacent Channel Rejection	-40dB = 4 MHz	
Baud Rate Asynchronous	1.2 to 38.4 Kbps Duplex TDD RS-232 (DB9F)	
Channels	21 Programmable	
Control	CTS, RTS	
Data Format	7 and 8 bits (non, even, odd) parity, 1 or 2 stop	
Dimensions	(1.52"H) x (4.17"W) x (5.0"D) (38.6mm H) x (105.9mm W) x (127mm D)	
Dynamic Range	-100 dBm ~ -30 dBm	
Frequency Range	902 - 928 MHz	
Indicators	PWR, TxD, RxD	
Modulation	Bi-Phase Shift Keying (BPSK)	
PN	7 Stage (127 Chip)	
PN Rate	2 MHz	
Operating Mode	Point - to - Point	
Operation Temperature	-20 to 60+ Degrees C (Option -34 to 74+ Degrees C)	
PN Codes	4 PN Codes Sequence Varies within ea. channel	
Power Consumption	10 Watt Maximum	
Power Requirements	10.5 to 13.8 VDC	
Radio Technique	Spread Spectrum Direct Sequence	
Range Nominal	800+ feet	
Range Indoor	500 to 1500+ feet	
Range Outdoor	12 + Miles - Direct Line-of-Sight FCC Compliant	
Relative Humidity	0-90% Non-Condensing	
Systems Gain	120 dB	
Transmission Delay	30 mSec.	
Voice Option Interface	RJ22 (6000NV Model only)	
Weight	16 oz.	
TRANSMITTER PERFORMANCE		
Carrier Frequency Stability	15 KHz	RECEIVER PERFORMANCE
Power Consumption	800 mA @ 12 VDC	BER (Bit Error Rate)
Spurious Output	FCC Part 15, meets 15.245 & 15.247	Local Oscillator Stability
Output Power	725 mW (28.6 dBm)	Receiver Sensitivity Threshold
		Stand-by Power Consumption
		Signal Acquisition Time
		Spurious Rejection
CONTROLLER		
Buffer	20 K bytes	
Collision	CSMA / CDMA	
CPU	80C188	
Error Control	HDLC	
Flow Control	X ON / X OFF and / or CTC / RTS	
Packet Size	5 to 1024 Bytes	
Packetizing Time	18 mS/1Byte, 96 mS/1024 Bytes @ 9600 bps	
Repeater	Selectable	
		FCC Acceptance : DE8-915003N
		DOC Acceptance : 2185 101 144
		ETSI Acceptance : Pending
		Patents : Pending
		Made in USA.

* Specifications subject to change without notice.
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"Innovation is Our Business"

Please visit our web site at : <http://www.greamerica.com>

GRE America , Inc. 425 Harbor Blvd. Belmont, California 94002 USA Phone: (650) 591-1400 Fax: (650) 591-2001