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TECHNOLOGY GROUP

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Find the *FreeWave DGBR-115R* at our website: ***Click HERE***



DGBR Series 225 to 400 MHz

U.S. Government or Export Sales Only!



Originally developed for the JBREWS program, the DGBR Series of spread spectrum radios and radio boards are designed to meet the rigorous demands of military and government users worldwide. Available as OEM board level radios or as packaged modems in ruggedized or waterproof enclosures, the radios operate over a 225 to 400 MHz frequency range. The radios may also be programmed to operate over any portion of this range to avoid interference with other radio systems in the area of operation.

With an advanced frequency hopping technology, a 4 watt RF output and a sensitive, wide dynamic range front end, the DGBR radios provide reliable data communications even in the most adverse environments. Error-free data transmission is assured with FreeWave's propriety 32-bit CRC error check, automatic acknowledgment and data retransmission. The DGBR radios share other powerful features with our popular 900 MHz and 2.4 GHz products, including 115.2 Kbps throughput, single radio repeater and slave/repeater modes.

Specifications:

Transmitter:	
Frequency Range	225 to 400 MHz
Output Power	4 Watts
Modulation	GFSK, 2 levels
RF Connector	Straight or Reverse SMA (OEM Modules) Type N female (Enclosures)
Receiver:	
Sensitivity	-103 dBm for 10^{-6} BER
Selectivity	40 dB at fc ± 230 KHz 60 dB at fc ± 460 KHz
Data Transmission:	
Error Detection	32 bit CRC, retransmit on error
Link Throughput	115.2 Kbps
Data Interface	RS232 or TTL
Power Requirements:	
Transmit Current	2.5 A max peak transmit

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Receive Current	250 mA receive
Voltage	12 Vdc
Operating Environment:	Operating Temperature: -40 ° to +75 ° C Storage Temperature: -55 ° to +85 ° C Humidity: Up to 100% non-condensing
Enclosures:	Extruded aluminum (DGBR115R) Waterproof extruded aluminum (DGBR115W) OEM Board (DGBRTAS/DGBRRAS)
Dimensions:	1.4515"H x 2.45"W x 5.626"L (OEM board)
Weight:	150 grams (OEM board)

Ordering Info

Model	Case	Interface	RF Connector	Features
DGBRITAS	board	TTL	SMA	IntCstal
DGBRLTAS	board	TTL	SMA	LLNL
DGBRRAS	board	RS232	SMA	
DGBRTAS	board	TTL	SMA	
DGBR-115R	Rugged	RS232	Type-N	
DGBR-115W	Waterproof	RS232	Type-N	

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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