



THE VITAL CONNECTION

GUARDIAN G25RBV100 50W Desktop Radio



Project 25 Compliant

Government • Military • Public Safety • Business



compatibility with conventional FM systems.

Datron's desktop unit is an integrated package containing a 110/220 Vac power supply and Datron's 50W mobile radio.

110/220 Vac power supply and Datron's 50W mobile radio. It has the same functionality as the unit in a mobile configuration. A high-output LCD display is easy to read in low light environments.

Transmission security is provided by DES wideband analog encryption, a feature that comes standard with the radio. Optional features include OFB DES digital encryption and over-the-air-rekeying (OTAR). The latter allows wireless changing of encryption keys.



Datron World Communications, Inc

- Full VHF Bandwidth, 136-174 MHz, 12.5/25 kHz Steps
- Multi-mode analog and digital, wideband and narrowband, up to 4 banks, 16 zones, and 256 channels
- Integrated Package, Radio and AC Power Supply in Desktop Enclosure
- User-selectable Power, 10/20/35/50 Watt Output Levels
- Secure Transmissions, SBCF DES wideband analog encryption is standard
- Shadow channels allow communication using any mode wide or narrow-band, analog or digital, crypto or plain.

Contact us today: 760.597.1500 3030 Enterprise Ct. Vista, CA 92083 www.dtwc.com • quardian@dtwc.com

GUARDIAN G25RBV100 50W Desktop Radio

MODEL DESIGNATION		GUARDIAN 50W DESKTOP RADIO
Datron Model Number		G25RMB100
Frequency Range		136-174 MHz
Channel spacing		12.5 and 25 kHz, selectable in 2.5 or 3.125 kHz steps
Banks, zones, channels, shadow		4 banks, 16 zones, 256 channels, 7 shadow
Voice, digital		
Mode voice coding		IMBETM , 4.4 kb
Frame resync interval		180 msecs
Error correction method		RS, Golay, Hamming
Input voltage		110/220Vac, selectable
Mounting		Desktop, self contained
Display		High output LCD
Antenna Port		UHF for 50 ohm antennas
Control		Local
FCC Type Acceptance Number		B3TG25RMV100, parts 74, 80, 90, 210
Industry Canada		41091-25RMV100
MECHANICAL, EN	NVIROMENTAL	
Size		7.35"W x 5.7"H x 10.2"D"
		(18.67 cm x 14.48 cm x 25.91cm)
Weight		17.75 lbs (8.07 kg), including power supply unit
Package		Metal and plastic
Temperature		-30°C to +60°C, operating
Shock, Vibration, Hu		
sand & dust, salt fog, altitude		Per MIL-STD-810F (radio)
	MEASUREMENTS PER	R TIA/EIA 603 STANDARDS)
RF Power Output		10/25/35/50 watts, selectable
Duty Cycle		Continuous
FCC Modulation Designators		11K0F3E, 16K0F3E, 12K6F1E
Frequency stability (-30C to +60C)		+/- 2.5 ppm
	SUREMENTS PER TIA	/EIA 603 STANDARDS)
Sensitivity		
Digital Mode	5% BER,	-116 dBm or better
Analog Mode	12 dB SINAD,	-116 dBm or better
Audio distortion (@ 1000 Hz)		5% @ rated power
Audio Output power		5W (internal speaker), up to 10W (external speaker)
Spurious Intermodulation		-75 dB
Maximum frequency separation		Full band split
ENCRYPTION		
Encryption keys		16
Code key generator		external
SBCF analog DES		Standard
OFB digital DES		Optional
OTAR		Optional
GUARDIAN ACCE	SSORIES (Optional)	
Microphone		Desk, palm DTMF, palm
External speaker		Up to 15W

Project 25 Compliant Government • Military Public Safety • Business



Call: 760.597.1500 • Fax: 760.597.1510 3030 Enterprise Ct. Vista, CA 92081 www.dtwc.com • guardian@dtwc.com

