

The most versatile, P25 compliant digital base station available TODAY.



V SERIES

Base Station / Repeater

- Interoperability
- Digital/Analog Operation
- APCO Project 25 Compliant
- Single or Dual Transceivers
- 136-174, 400-470 MHz



A complete turn-key dual radio station in a compact, multi-mode system—only from BK Radio.

General Specifications:

- Continuous duty PA module interoperability
- Narrowband/wideband per channel
- Simultaneous operation and linking of digital, analog, VHF and UHF terminals
- RS232 programming and 2/4 wire audio interfaces
- E&M interface
- Controller Module indicators and display
- 10 MHz reference oscillator
- Ethernet-ready for network management interface
- General Purpose I/O lines (6 input/6 output)
- Instant Power Up with Software v. 2.06
- Analog conforms to TIA / EIA 603
- Digital conforms to TIA102.CAAB
- Frequency Stability + 0.1, .5, 1.5 ppm
- Compatible with industry standard tone remote control consoles
- Direct connection to existing tone remote and console systems

BK Radio's V Series packs big Value and Versatility in a small package with an unmatched number of features, options, and innovations.



Flexible and Secure

With 1 or 2 Channels, 50 or 100 Watts RF Power, and hot swappable, plug-n-play modules. The V Series functions as a base station or as a stand-alone repeater. Affordable upgrade from single- to dual channel. High quality secure communications for public safety users.

Digital now or Digital later Migration Path

Starting down the digital migration path? The V Series is P25 compliant and has automatic analog (CTCSS & CDCSS) or digital (NAC) signal sensing and processing.

Remote Programming and Diagnostics

Windows-based software. IP enabled providing access to real time diagnostics and alarm information using intranets.

Rugged, Spacesaving Design & Engineering

A 19" x 14" x 17.5" self-contained, desktop or rack-mount cabinet with all the I/O connectivity you need—PSTN/PABX, microwave, 2.4 wire tone based remotes, DB9, RJ45, BNC and DB25 ports. DES-OFB encrypted voice, OTAR transparent to repeater. AC/DC Power supply with revert capability.

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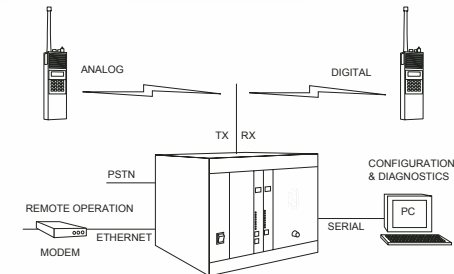
Transmitter:

Transmit Output Power:	6-50 W and 10-100 W modules Adjustable in 1 dB steps	
Power Consumption	1st Ch	2nd Ch
RX	55 W	26 W
TX 50 W	245 W	210 W
TX 100 W	380 W	340 W
Spurious and Harmonic:	86 dB	
Emissions Attenuation		
Hum and Noise	300 to 3000 Hz bandwidth, 60% RSD	
	25 kHz	50 dB nominal
	12.5 kHz	45 dB nominal
Audio Response		
Analog:	+1 to -3 dB*	
Digital:	as per TSB102.CAAB	
Frequency Band	136-160 MHz, 145-174 MHz, 400-450 MHz, 440-470 MHz	

Receiver:

Sensitivity: 12 dB SINAD	-118 dBm
Intermodulation Rejection	80 dB
Spurious and Image Response Rejection	90 dB
Audio Response	
Analog:	+1 to -3 dB*
Digital:	as per TSB102.CAAB
Line Output:	-20 dBm to 0 dBm @ 60% RSD, 1 kHz
RF Input Impedance	50 ohms

*From 6 dB per octave pre-emphasis 300 - 3000 Hz referenced to 1000 Hz at line input.



Base Station and/or Repeater

Current RELM Federal Contracts

FEDERAL	GSA
BLM-DOI NBC 030003	FEDERAL TECHNOLOGY SERVICES GS06T03BND7002
USFS 54-3187-3-328	INFORMATION TECHNOLOGY SCHEDULE GS35F-0133L

Meets MIL-STD specifications. Approved by DOI, Forestry, GSA. Digital Mode TIA, 102.CAAB, Analog TIA/EIA603 FCC Certification. FCC ID #N6FC100059 Copyright 2003 RELM Wireless Corporation. 7003-30962-405 Rev 11-03



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