



DB-1000 Digital Base Station

406-520 MHz · 6.25 kHz & 12.5 kHz



The DB-1000 all-digital land mobile Base Station Repeater provides both single channel and multi-channel trunking in one compact station. The secure, digital station operates on both 12.5 kHz narrowband and 6.25 kHz ultra narrowband channels providing access to hundreds of new, clear channels at UHF.

Fifty watts of power means that your signal will be heard, even with multi-couplers. The unique frequency-agile dual receivers provide space diversity reception as well as allowing monitoring of the output frequency which may be in use at a different location in situations where the channels



An i2way Digital Trunked System is very compact, and requires no external trunking controller. Use Ethernet to link up to 32 repeaters at one site and connect to an IP link to your other sites for wide area networking and the i2way Network.



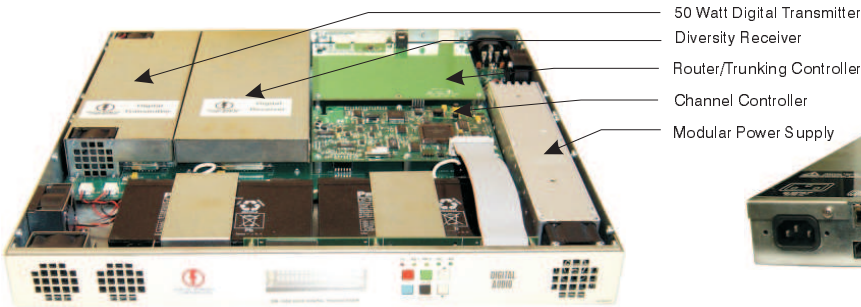
On-board diagnostics alert you remotely about faults at your site. Front panel controls give technicians setup and configuration controls, all of which are accessible over the Internet.

The AC or DC powered DB-1000 includes two frequency-agile digital receivers with a third receiver input, a spectrally pure digital transmitter with analog FM capability, a DSP-based channel controller and a built-in Internet router. Capable of wide-area networking by the simple addition of an Ethernet connection to the Internet or other IP connectivity, the radio also includes internal battery capacity of one hour of keydown transmit (at 25 watts), more than capable of bridging the gap between AC power loss and standby generator stabilization.

are shared, and makes compliance with FCC trunking rules easier than ever. i2way In-Band Mesh Linking allows full mesh networking to distant DB-1000 repeaters using the radio's normal UHF channels, an industry first, and a perfect solution to add coverage in remote areas without the expense of a separate microwave or other types of backhaul paths or for emergency backup to microwave links or wired Internet connectivity in the event of storm damage or sabotage.

The spectrally-efficient DB-1000 delivers secure i2way-format Digital Voice, automatic unit location (AVL), short text messaging (SMS), Long-form Data and status reporting at over 10,000 bits per

6.25 ULTRA NARROW



The DB-1000 Digital Base Station chassis contains a number of plug-in modules interconnected by a multi-layer mother board with massive power and ground planes. The fifty watt transmitter and dual receiver modules are housed in shielded modules which snap onto the mother board. The channel controller, router and telephone interconnect boards also plug in, making replacement simple. The station's rugged 250 watt power supply similarly plugs directly into the motherboard. Two rechargeable batteries provide raw power supply filtering and standby power. The i2way Digital Base Station is designed to handle continuous transmit operation year after year.

Warning: Maintain a separation distance from the antenna to persons of at least 2.00 meters for general population/uncontrolled exposure. RF exposure compliance must be addressed at the time of installation by the user.

Changes or modifications to this product or use in a manner not authorized by Digital Wireless Corporation could void the user's authority to operate this station. Hazardous voltages present inside this device. Disconnect AC Mains supply cable before removing cover.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RECEIVE INPUTS

Warning: Do not operate transmitter without transmit antenna or suitable 50 ohm load

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second. An optional internal module allows the connection of a POTS telephone line for telephone calls to and from i2way mobile units, a great safety feature for solitary workers on after-hours calls.

Housed in a single-rack-unit height chassis, this repeater that won't make you pay for extra cabinet space at your antenna site. The wide range AC input capability (85-264 V 47-63 Hz AC) of its highly efficient switching power supply means that you do not have to worry about line voltage sag at that remote hilltop which could affect your system. And the auxiliary 13.6 volt output keeps your receiver multicoupler or other low current accessory running as well.

Built-in local and remote diagnostic capabilities, via the Internet or over the air, makes setup and troubleshooting simple. A bright vacuum fluorescent display, front-mounted speaker and VGA display/KVM I/O offer unmatched convenience.

SPECIFICATIONS

Frequency Range	406-520 MHz
Mains Supply	85-264 V 47-63 Hz AC
DC Supply	13.6 VDC
Output Power	25 to 50 Watts
Receiver Sensitivity	-120 dBm equivalent 1% BER
Bandwidth	6.25 or 12.5 kHz
Emission Designators	6K00F1E, 6K00F1D 8K10F1E, 8K10F1D 10K7F1E, 10K7F1D 11K2F1E, 11K2K1D 11K2F3E

This radio is FCC, Industry Canada and ACMA approved for use in the United States, Canada and Australia.

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