

PRC1060/1070/1080

VHF Squad Radios

TACTICAL VHF



Datron's PRC1060, PRC1070, and PRC1080 are 2W portable squad radios that offer handheld tactical communications capability in the 30 to 88 MHz band in 25 kHz steps. The radios have 2,320 available channels and up to nine preset-able memory channels. Datron's newest squad radios, the PRC1060-5, PRC1070-5 and PRC1080-5 offer 5W of output power with 2 user-selectable levels of 100mW and 5W.

The PRC1080 has built-in full or partial-band frequency hopping and digital encryption, and is designed for use in situations where high-level anti-jam techniques and communications security are required. The PRC1070, while not containing either hopping or encryption, is upgradeable to both functions by the addition of a single module. The PRC1060 is the same as the PRC1070 except that it is not upgradeable. The PRC1060 also has an internal voice scrambler that can be enabled by the operator to provide a level of security if needed.

All squad radios work with most single-channel VHF/FM radios using a 150 Hz tone system including Datron's HH7700 and PRC1077 radios. In addition, special user-selectable voice processing enhances single-channel FM voice quality when operating in Squad Radio-only networks. The PRC1080 also works with Datron's PRC2100V (Spectre V[®]) in hopping and encrypted modes.

The squad radios are reliable in harsh field environments. They are waterproof and have been qualified to the exacting requirements of MIL-STD-810 for shock and vibration and other environmental standards. An internal Built-in-Test (BIT) function makes it easy to identify a defective subassembly.

Datron offers a vehicle "docking station" (MT1060DS) that is ideal for security forces that require occasional mobile use. This device is a convenient way of mounting the radio in a vehicle next to the driver. Whenever the radio is in the docking station, vehicle power is used to both run the radio and charge the battery (2W squad only).

If additional RF power is needed, the optional MT1060MM forms the basis for a powerful mobile station. It can be located in a section of the vehicle next to the antenna and offers power conditioning, a remote-control interface, and a 30W RF power amplifier.

- 30 to 88 MHz, 25 kHz steps
- Programmable memory channels
- Embedded ECCM & COMSEC (PRC1080)
- Rugged (MIL-STD-810); immersible
- Portable/mobile configurations
- 0.1/2/5/30 watts
- Straightforward logistic support
- Vehicular "docking" station & PA
- Internal BITE



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GENERAL

- FREQUENCY RANGE 30 to 87.975 MHz;
- AVAILABLE CHANNELS 2,320 in 25 kHz steps
- PRESET CHANNELS 9 Programmable memory channels
- CHANNEL PROGRAMMING Front panel or remotely via keyfill device
- MODES PRC1060: FM, FF clear voice
PRC1070: FM, FF clear voice; upgradeable for FH
PRC1080: FF clear voice, FF encrypted voice, FH voice, FH encrypted voice

- INPUT POWER REQUIREMENTS 2W Squad: 7.5 Vdc
5W Squad: 14.4 Vdc; will work with 7.5 Vdc at reduced power

- BATTERY PACK 2W Squad: H4595, 1.8AH, Rechargeable NiCAD
5W Squad: BB-LI-5 1.8AH, Rechargeable Li Ion

- FREQUENCY STABILITY 15 ppm
- ANTENNA 13" flexible whip or 3 ft. tape (AT892BB-ADPT)
- ANTENNA PORT N-type for 50 ohm broadband antennas or for connection to external amplifier; whip antenna port.
- DISPLAY Backlit, multi-function custom LED

MECHANICAL, ENVIRONMENTAL

- SIZE 10" x 3.5" x 1.75"
(254.0 mm x 88.9 mm x 44.45 mm); H x W x D
- WEIGHT 2.5 lbs. w/o battery; 2.75 lbs with flexible whip antenna
- COLOR Olive Drab, Green
- PACKAGE Sealed, immersible to 1m
- TEMPERATURE -40 to +60 degrees C.
- SHOCK, VIBRATION, HUMIDITY, FUNGUS, ALTITUDE, SAND & DUST Per MIL-STD-810

TRANSMITTER

- RF POWER OUTPUT 2W Squad: 100mW, 2W
5W Squad: 100mW, 5W (2W with 7.5 VOC battery)
- DUTY CYCLE Continuous service, all modes. 9:1 Rx:Tx, 2 min Key. High Power
- HARMONICS -45 dBc minimum
- MODULATION Narrowband voice, +/- 7 kHz
- 150 HZ TONE DEVIATION 3 kHz +/- 500 Hz

RECEIVER

- SENSITIVITY -113 dBm @ 12 dB SINAD
- SQUELCH 150 Hz tone
- AUDIO 400mW into 8 ohms

ACCESSORIES

- H2100 "Stealth" headset (fits underneath standard MIL headset)
- MT1060DS Vehicle docking station
- MT1060MM Mobile 30W RF booster amplifier
- AT892BB-ADPT 3 ft. tape antenna (broadband)
- 1080KIT Upgrade kit for PRC1070 to add ECCM & COMSEC
- CMS2100 Programming kit (software & manual)
- KF1088B, C992303, 1080ADPT Programming hardware accessories

ADDITIONAL FEATURES

- TRANSMITTER VSWR Protection (power rollback continuous service)
Temperature Protection (power rollback continuous service)

* Subject to export regulations

Specifications subject to change without notice - rev 0209

Datron is an ISO 90012000 Certified Company

Made in the USA



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