



- 30 to 88 MHz, 25 kHz Steps
- 2320 Available Channels
- Programmable Memory Channels
- Embedded ECCM & COMSEC (PRC1080)
- Rugged (MIL-STD-810), Completely Immersible
- Portable/mobile Configurations
- 0.1/2/30 Watts
- Straightforward Logistic Support
- Vehicular "Docking" Station
- Internal BITE

## PRC1060/1070/1080 VHF Tactical Squad Radios

Datron's PRC1060/1070/1080 family are portable squad radios that offer handheld tactical communications capability in the 30 to 88 MHz band in 25 kHz steps. The radios have 2320 available channels and up to nine presetable memory channels. An RF power output of 100mW to 2W is user selectable.

The PRC1080 has embedded ECCM and COMSEC capability. It offers 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 upgradable to both functions by the addition of a single module. The PRC1060 is the same as the PRC1070 except that it is not upgradable. 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 are interoperable with most singlechannel VHF/FM radios using a 150 Hz tone system. In addition, special user-selectable voice processing enhances single-channel FM voice quality when operating in Squad Radio-only networks. The PRC1080 is also interoperable with Datron's PRC2100V (Spectre  $V^R$ ) in hopping and encrypted modes.

The squad radios are easy to operate and maintain, and reliable in harsh field environments. They are completely waterproof and have been qualified to the exacting requirements of MIL-STD-810 for shock and vibration and other environments standards. An internal Built-in-Test (BIT) function makes it easy to identify a defective subassembly. All test messages are shown on the easily readable front panel display.

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 an attached radio battery.

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 additional power conditioning, a remote-control interface, and a 30W RF power amplifier.

A full line of audio devices is also available for the squad radios including a "stealth" headset which allows "handsfree" operation. An optional carrying case provides the maximum flexibility in radio transport and protection.

## **SPECIFICATIONS** GENERAL

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Frequency Range	30 to 88 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
	PRC1080: FF Clear Voice, FF Encrypted voice, FH
	Voice, FH encrypted voice
Input Power Requirements	7.5 Vdc;
Battery Pack	H4595 1.8AH, rechargeable NiCd
Frequency Stability	15 ppm
Antenna	12" rubber duck or 3 ft. tape (AT892BB-ADPT)
Antenna Port	BNC for 50 ohm broadband antennas or for
	connection to external amplifier; whip antenna port.
Display	Backlit, multi-function custom LED

## Mechanical, Environmental

Size (H x W x D) Weight

Color Package Temperature Shock, Vibration, Humidity, Fungus, Altitude, Sand & dust.

254.0 x 89 x 44 mm (10 x 3.5 x 1.75 inches) 1.7 lbs (0.8 kg) w/o battery; 2.4 lbs (1.2 kg) w/battery OD, black, or gray (customer specified) Sealed, immersible to 1m -40 to +60 degrees C. Per MIL-STD-810

Ir	<u>ransmitter</u>	
RF	F Power Output	100mW or 2W, operator selectable
Du	uty cycle	Continuous service, all modes
Ha	armonics	-46 dB, 2nds; -50 dB, others
M	lodulation	Narrowband voice, +/- 7 kHz
15	50 Hz tone deviation	3 kHz +/- 500 Hz
R	eceiver_	
Se	ensitivity	12 dB SINAD for 0.5uV input
Sc	quelch	150 Hz tone
Αι	udio	400mW into 8 ohms; 12mW into 1000 ohms

## Accessories

H2100 "Stealth" headset MT1060DS Vehicle docking station MT1060MM Mobile 30W RF booster amplifier 3 ft. tape antenna (broadband) AT892BB-ADPT Upgrade kit for PRC1070 to add ÉCCM & COMSEC 1080KIT CMS2100 Programming kit (software & manual) KF1088B, C992303, 1080ADPT Programming hardware accessories Note: all specifications subject to change without notice



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