Features include
- Compact lightweight modular design
- Configurations include:-
  - 5 W Hand Portable
  - 25 W Manpack
  - 50 W Mobile
  - 50 W Base Station
  - 50 W Re-broadcast system
- DSP voice and data signal processing
- Selective and group calling
- Compatible with other 30 – 88 MHz communications equipment

Available options include
- Encryption and frequency hopping security
- Messaging and encrypted data transfer

The PRC-2080+ low band VHF transceiver is designed for multi-role tactical military and security applications. It is an extremely compact and lightweight unit which is simple to operate in demanding mission critical conditions. The PRC-2080+ is part of the family of Barrett transceivers that are field proven in over 150 countries, on every continent and in all environments.
The PRC-2080+ Tactical VHF radio system is a military grade portable communication transceiver specifically designed for tactical applications. It is designed to meet complete immersion, vibration, drop to MIL-STD 810G.

Communication modes
The PRC-2080+ Tactical VHF radio system has multiple levels of encryption and frequency hopping security available. Analogue voice and digital unencrypted data are fitted as standard. The following levels of encryption are available:

- Analogue Voice - Fixed Frequency (AFF)
- Digital Unencrypted Data - Fixed Frequency
- Digital Encrypted Voice - Fixed Frequency (DEFF)
- Digital Encrypted Voice - Frequency Hopping (DEFH)**
- Digital Encrypted Voice - Free Channel Search (DEFCS)
- Digital Encrypted Data - Fixed Frequency
- Digital Encrypted Data - Frequency Hopping**

** Requires an Australian Department of Defence Export licence.

Rugged design
Users will appreciate the PRC-2080+ transceiver’s solid construction, simplicity and accessibility. Maintenance is quick and simple with only three internal modules which can be exchanged without any special tools. All inter-module connectors are gold plated and there are no wiring looms or complex back plane assemblies. In designing the PRC-2080+, emphasis has been placed on ensuring low cost of ownership over a long service life. The transceiver’s software defined architecture ensures compatibility with legacy, current communication systems.

Modular construction
The PRC-2080+’s main circuitry is contained in three modules – the radio frequency (RF), digital signal processor (DSP) and power amplifier (PA) modules. A very high level of integration is used to minimise component count and to increase reliability. The embedded software is controlled by the DSP module, which uses a low current, high speed DSP core engine. Speech coding and all frequency hopping and encryption functions are processed by the DSP under the control of a host microprocessor. The RF module contains a high dynamic range front end with DDS (Direct Digital Synthesiser) system which achieves fast frequency switching times whilst maintaining low current consumption. The PRC-2080+’s RF design takes into account the hostile electromagnetic environment and achieves excellent ECM resistance and co-siting performance. The PRC-2080+’s RF, DSP and software design make it one of the most cost effective, secure, high performance VHF transceivers available in the tactical military market today.

Simple to use
For basic operation of the PRC-2080+, only the front panel controls are required. Field programming, advanced menu options, selective calling and group calling features are accessible via the PRC-2080+’s supplied advanced handset. The PRC-2080+ is an ideal replacement to the PRC-77 and its variants, which are now obsolete and susceptible to interception and jamming.
The PRC-2081+ 25 Watt Manpack upgrades the PRC-2080+ transceiver with increased power and communication range. The PRC-2081+ is a military grade manpack communication set specifically designed for tactical applications and designed to withstand complete immersion, vibration, drop and temperature extremes to MIL-STD 810G.

PRC-2080+ VHF transceiver
VHF 25 W manpack dock
10Ah, 16.8 V Li-Ion battery pack
AC/DC charger
Collapsible section whip
Tape whip antenna
Advanced tactical handset
Framed backpack

The standard package comprises:
- PRC-2080+ VHF transceiver
- Advanced tactical handset
- Tape whip antenna with gooseneck
- Rechargeable 6.5 Ah Li-Ion battery
- AC/DC battery charger

PRC-2081+ 25 W VHF Manpack package
P/N 2086-00-10

The PRC-2081+ 25 Watt Manpack upgrades the PRC-2080+ transceiver with increased power and communication range. The PRC-2081+ is a military grade manpack communication set specifically designed for tactical applications and designed to withstand complete immersion, vibration, drop and temperature extremes to MIL-STD 810G.

PRC-2080+ VHF transceiver
Vehicle docking station
50 W VHF amplifier
Advanced tactical handset
Tactical Installation Kit
Rugged external amplified speaker

The standard package comprises:
- PRC-2080+ VHF transceiver
- VHF 25 W manpack dock
- 10 Ah, 16.8 V Li-Ion battery pack
- AC/DC charger
- Collapsible section whip
- Tape whip antenna
- Advanced tactical handset
- Framed backpack

PRC-2082+ 50 W VHF Mobile package
P/N 2087-00-10

The PRC-2082+ Mobile package provides a convenient docking station for the PRC-2080+ transceiver as well as the flexibility for dismounted use when not in the vehicle (additional accessories are required to use the PRC-2080+ as a Hand Portable). The 50 W VHF amplifier provides range extension and increased link reliability when connected to the external vehicle whip antenna system. The PRC-2082+ can be installed in a range of vehicles including jeeps, patrol boats, APC's, and tanks. The PRC-2082+ is ready for connection to combat net radio systems incorporating intercom harnesses. The overall size of the system makes it one of the smallest VHF platforms available making it particularly suited to vehicles where space is limited.

PRC-2080+ VHF transceiver
Advanced tactical handset
Tape whip antenna with gooseneck
Rechargeable 6.5 Ah Li-Ion battery
AC/DC battery charger

The standard package comprises:
- PRC-2080+ VHF transceiver
- Advanced tactical handset
- Tape whip antenna with gooseneck
- Rechargeable 6.5 Ah Li-Ion battery
- AC/DC battery charger

PRC-2083+ 50 W VHF Re-broadcast System - P/N 2088-00-10

The Barrett PRC-2083+ Re-broadcast system is typically used to link two low band VHF networks providing extended range to overcome communication difficulties due to distance or terrain. The two networks can use different security options (frequency hopping and encryption) providing a field deployable interoperability solution.

The re-broadcast system utilizes two PRC-2084+ 50 Watt systems and incorporates a nine band co-location filter assembly and AC/DC power supply with battery backup facilities all housed in a MIL-SPEC ruggedised transportable case allowing for easy deployment in any field environment.

PRC-2080+ VHF transceiver
Vehicle docking station
50 W VHF amplifier
Advanced tactical handset
AC power supply module
Tactical Installation Kit
Rugged external amplified speaker

The standard package comprises:
- PRC-2080+ VHF transceiver
- Vehicle docking station
- 50 W VHF amplifier
- Advanced tactical handset
- AC power supply module
- Tactical Installation Kit
- Rugged external amplified speaker

PRC-2084+ 50 W VHF Re-broadcast System - P/N 2089-00-10

The Barrett PRC-2084+ VHF Base Package, provides a convenient docking station with power amplification to 50 W, as well as the flexibility of dismounted communications when removed from the docking station (additional accessories are required to use the PRC-2080+ as a Hand Portable). The VHF Base Package can be installed in a number of temporary base and fixed command configurations and operated from a variety of AC and DC power sources.

PRC-2080+ VHF transceiver
Vehicle docking station
50 W VHF amplifier
Advanced tactical handset
AC power supply module
Tactical Installation Kit
Rugged external amplified speaker

The standard package comprises:
- PRC-2080+ VHF transceiver
- Vehicle docking station
- 50 W VHF amplifier
- Advanced tactical handset
- AC power supply module
- Tactical Installation Kit
- Rugged external amplified speaker
PRC-2080+ General specifications

Frequency range: 30.2 MHz to 87.775 MHz
Channel resolution: 25 kHz
Channels: 10
Squelch: 150 Hz tone squelch
Display: Backlit LCD graphics display
Programming: PC programming software, Fill Gun, Cloning cable, Tactical handset
BITE: Advanced module diagnostics & error reporting
Output power: 5 W / 500 mW / 50 mW nominal (selectable)
Modulation: FM (F3E) Digital

Mechanical & environmental

PRC-2080+ 5 W VHF Hand Portable package – P/N 2085-00-10
- Battery: 14.4 V 6.5 Ah Li-Ion
- Antennas: Tape whip with balun gooseneck
- Dimensions in mm: 110W x 55D x 247H including battery
- Weight: 1.3 kg with battery pack
- Temperature: Operating -30°C to +60°C
- Construction: Aluminium body and polycarbonate battery casing
- MIL-STD 810G: Drop, shock, vibration & immersion

PRC-2081+ 25 W VHF Manpack package – P/N 2086-00-10
(General specs as per PRC-2080+ unless noted below)
- Battery: 16.8 V 10 Ah Li-Ion
- Antennas: Tape whip with gooseneck or 6 section collapsible whip
- Output power: 25 W
- Dimensions in mm: 315W x 205D x 510H
- Weight: 7.7 kg with backpack frame and battery pack
- Temperature: Operating -30°C to +60°C

PRC-2082+ 50 W VHF Mobile package – P/N 2087-00-10
(General specs as per PRC-2080+ unless noted below)
- Supply voltage: 11 to 28 V DC
- Output power: 50 W
- Dimensions in mm: 230W x 250D x 295H
- Weight: 11.6 kg excluding antenna

PRC-2084+ 50 W VHF Base package – P/N 2089-00-10
(General specs as per PRC-2080+ unless noted below)
- Power Supply: 100 to 240 V AC
- Output power: 50 W
- Dimensions in mm: 230W x 445D x 335H
- Weight: 18 kg excluding antenna

PRC-2083+ 50 W VHF Re-broadcast System – P/N 2088-00-10
(General specs as per PRC-2084+ unless noted below)
- Power Supply: 100 to 240 V AC
- Dimensions in mm: 685W x 715D x 550H
- Weight: 47 kg excluding antennas

Specifications are typical. Equipment descriptions and specifications are subject to change without notice or obligation.