



4075 HF SDR TRANSMITTER 1KW



- Liquid-cooled linear amplifier
- 1.6 to 30 MHz continuous coverage
- 1 kW or 500 W continuous service (100%)
- USB, LSB (SSB), CW, FSK, AM
- Remote control via IP and Wi-Fi
- Compatible with radio networks 4 and 6 with selective calling
- Automatic link establishment (ALE) options 2G and 3G
- Selcall aeronautical selective call option ARINC ICAO Annex 10
- Reprogrammable on site via USB

4050 HF SDR STATION FIXE 150W



- Architecture in cutting edge of technology, fully defined by software
- Intuitive touch interface and easy to use
- IP connectivity and remote control enabled
- Wireless operation via iOS, Android and Windows devices
- USB connection for programming the transceiver and encryption keys loader
- Multilingual menu
- Digital voice and secure digital voice
- High speed data transmission waveforms on board
- Wired and wireless removable control head connectivity
- Transmission power up to 150 W
- High reception performance
- Low power consumption
- Automatic link establishment (ALE) options 2G and 3G
- GPS Push option
- Fully backward compatible with existing radio networks

DIVISIONAL HQ COMMAND

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REGIMENTAL / BRIGADE HQ

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BATTALION HQ

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- Remote control via IP and Wi-Fi
- Compatible with radio networks 4 and 6 with selective calling
- Automatic link establishment (ALE) options 2G and 3G
- Selcall aeronautical selective call option ARINC ICAO Annex 10
- Reprogrammable on site via USB

PRC-4092 HF STATION FIXE 150W



- Architecture in cutting edge of technology, fully defined by software
- Intuitive touch interface and easy to use
- IP connectivity and remote control enabled
- Remote operation via iOS, Android and Windows devices
- USB connection for programming the transceiver and encryption keys loader
- Multilingual menu
- Digital voice and secure digital voice
- High speed data transmission waveforms on board
- Transmission power up to 150 W
- High reception performance
- Low power consumption
- Automatic link establishment (ALE) options 2G and 3G
- GPS Push option
- Fully backward compatible with existing radio networks

COMPANY HQ

PRC-4090 HF STATION FIXE 150W



- Architecture in cutting edge of technology, fully defined by software
- Intuitive touch interface and easy to use
- IP connectivity and remote control enabled
- Remote operation via iOS, Android and Windows devices
- USB connection for programming the transceiver and encryption keys loader
- Multilingual menu
- Digital voice and secure digital voice
- High speed data transmission waveforms on board
- Transmission power up to 150 W
- High reception performance
- Low power consumption
- Automatic link establishment (ALE) options 2G and 3G
- GPS Push option
- Fully backward compatible with existing radio networks

PRC-4091 HF MOBILE 150W



- Architecture in cutting edge of technology, fully defined by software
- Intuitive touch interface and easy to use
- IP connectivity and remote control enabled
- Remote operation via iOS, Android and Windows devices
- USB connection for programming the transceiver and encryption keys loader
- Multilingual menu
- Digital voice and secure digital voice
- High speed data transmission waveforms on board
- Transmission power up to 150 W
- High reception performance
- Low power consumption
- Automatic link establishment (ALE) options 2G and 3G
- GPS Push option
- Fully backward compatible with existing radio networks

PRC-4092 HF STATION FIXE 150W



- Architecture in cutting edge of technology, fully defined by software
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- IP connectivity and remote control enabled
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- Multilingual menu
- Digital voice and secure digital voice
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- Low power consumption
- Automatic link establishment (ALE) options 2G and 3G
- GPS Push option
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CROSS GATE 2063 HF-VHF



- Interoperability between Barrett HF and Barrett VHF communication systems
- Allows to deploy the troops and to communicate directly with control centers with very distant command
- Reduces the deadlines of communicating urgent information

COMPANY HQ

PRC-2081+ 25W VHF



- PRC-2080 + VHF transceiver
- Connection pod for VHF manpack
- 10 A, 16.8V battery pack
- AC / DC charger
- Collapsible whip antenna
- Tape whip antenna
- Advanced tactical combination
- Framed backpack

PRC-2082+ 50W VHF



- PRC-2080 Transceiver + VHF
- Vehicle docking station
- 50 W VHF amplifier
- Advanced tactical combination
- VHF military whip antenna with base
- Rugged external amplified speaker
- Tactical installation kit

PRC-2084+ 50W VHF



- PRC-2080 transceiver + VHF
- Connection pod for VHF manpack
- 10 A, 16.8V battery pack
- AC / DC charger
- Collapsible whip antenna
- Tape whip antenna
- Advanced tactical combination
- Framed backpack

PRC-2083+ 50W VHF



- PRC-2080 Transceiver + VHFx2
- Vehicle docking station x2
- 50 W VHF amplifier x2
- Advanced tactical combination x2
- AC power supply module
- Low band filter panel
- Carry bag
- Rugged external amplified speaker x2
- Tactical installation kit

PLATOON HQ

PRC-4090 HF FIXED STATION 150W



- Architecture in cutting edge of technology, fully defined by software
- Intuitive touch interface and easy to use
- IP connectivity and remote control enabled
- Wireless operation via iOS, Android and Windows devices
- USB connection for programming the transceiver and encryption keys loader
- Multilingual menu
- Digital voice and secure digital voice
- High speed data transmission waveforms on board
- Transmission power up to 150 W
- High reception performance
- Low power consumption
- Automatic link establishment (ALE) options 2G and 3G
- GPS Push option
- Fully backward compatible with existing radio networks

PRC-4091 HF MOBILE 150W



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PRC-4092 HF FIXED STATION 150W



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CROSS GATE 2063 HF-VHF



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- Allows to deploy the troops and to communicate directly with control centers with very distant command
- Reduces the deadlines of communicating urgent information

PLATOON HQ

PRC-2080+ 5W VHF



- 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+ 25W VHF



- PRC-2080 + VHF transceiver
- Connection pod for VHF manpack
- 10 A, 16.8V battery pack
- AC / DC charger
- Collapsible whip antenna
- Tape whip antenna
- Advanced tactical combination
- Framed backpack

PRC-2082+ 50W VHF



- PRC-2080 + VHF Transceiver
- Vehicle docking station
- 50 W VHF amplifier
- Advanced tactical combination
- VHF military whip antenna with base
- Rugged external amplified speaker
- Tactical installation kit

PRC-2083+ 50W VHF



- PRC-2080 Transceiver + VHFx2
- Vehicle docking station x2
- 50 W VHF amplifier x2
- Advanced tactical combination x2
- AC power supply module
- Low band filter panel
- Carry bag
- Rugged external amplified speaker x2
- Tactical installation kit

PRC-2084+ 50W VHF



- PRC-2080 transceiver + VHF
- Connection pod for VHF manpack
- 10 A, 16.8V battery pack
- AC / DC charger
- Collapsible whip antenna
- Tape whip antenna
- Advanced tactical combination
- Framed backpack

DEPLOYABLE / PORTABLE 4075 1KW

4075 HF SDR TRANSMITTER 1KW

The deployable / portable 4075 1KW allows the advanced mission element to have the same RF power as the HQ element, thereby ensuring equal two-way HF communications.

Previously, only the static element of the headquarters could have an HF system of this power, which means that the troops deployed had less communication power and less efficiency.

Critical HF communications can now be used effectively in all scenarios.



- Liquid-cooled linear amplifier
- 1.6 to 30 MHz continuous coverage
- 1 kW or 500 W continuous service (100%)
- USB, LSB (SSB), CW, FSK, AM
- Remote control via IP and Wi-Fi
- Compatible with radio networks 4 and 6 with selective calling
- Automatic link establishment (ALE) options 2G and 3G
- Selcall aeronautical selective call option ARINC ICAO Annex 10
- Portable rack or deployable in a 9RU box
- Reprogrammable on site via USB

RAPID FIELD DEPLOYMENT SYSTEMS

RFDS PRC-2080 VHF



- Operational in the field in few minutes
- AC and / or DC power supply
- Fitted with 12 V 36 Ah batteries
- Fitted with a charger
- HF and VHF interoperability
- IP65 transportable base station, stackable and deployable in the vehicle / in the field
- Tactical LED lighting for night / dark operations

RFDS PRC-2090 HF



- AC and / or DC power supply.
- Fitted with 12 V 36 Ah batteries.
- Equipped with a charger.
- HF and VHF interoperability.
- Ready for HF data transmission.
- Several voice and data security options.
- Transportable base station IP65, stackable and deployable in the vehicle / in the field.
- LED tactical lighting for night / dark operations

Anti-shock rack bag rugged and anti-vibration 9U of 19 inch meets the MIL-STD 810G and rated IP65

Fitted with a waterproof gel battery 33 ampere / hour lead-acid. Batteries external can also be used.

External 5-volt 2 A DC USB accessory socket for charging an external tablet or telephone

The power management unit (PMU) automatically controls and selects input power supply from different sources such as AC current, derivative DC power, regulated solar power, and external DC power such as batteries. The power supply is switched on automatically in order of priority between the different DC sources. A 3-step charger with internal battery 7A keeps the 36 Ah internal battery in working condition if AC power is available. A secondary charging source is available via the solar power input. An LCD screen keeps the operator informed of the current source which supplies the circuit and the state of each of them by indicating the voltage, current and state of the power source.

The radio equipments are quickly removable. RFDS unit can be supplied without radio equipment so that Barrett customers can use their existing equipment

Mobile tactical transceiver package low band PRC-2082 50 W VHF

Barrett power supply PRC-2090 powers equipment from sector

19 inch 19U reinforced anti-shock and anti-vibration rack case conforming to MIL-STD 810G standard and rated IP65.

The radio equipments are quickly removable. RFDS can be supplied without radio equipment so Barrett users can use their existing equipment.

Barrett PRC-2090 HF transceiver 1.6 MHz to 30 MHz, 125 W PEP, HF with internal HF modem for e-mail fax and data connection on HF radio.

Provided at the rear with a 36 amp / hour lead acid waterproof gel battery. External batteries can also be used.

Barrett 2063 Crossgate allows interconnection between Barrett PRC-2090 and VHF PRC-2080 HF transceivers.

Internal Barrett 2023 HF modem for e-mail, fax and data operating on HF radio.

Output selector for telephone connection, transceiver programming mode and use of Crossgate data

Barrett PRC-2090 power supply. Power the equipment from the sector.

PC connection for programming the transceiver and / or using the HF 2020 Barrett radio for e-mail, fax and data usage

External 5-volt 2 A DC USB accessory socket for charging an external tablet or telephone.

The Power Management Unit (PMU) automatically controls and selects input power from various sources such as AC current, bypass DC, regulated solar power, and external DC power such as batteries. The power is switched on automatically in order of priority between the different DC sources. A 3-stage 7A internal battery charger keeps the 36 Ah internal battery in working condition if AC power is available. A secondary charging source is available via the solar power input. An LCD screen keeps the operator informed of the current source that supplies the circuit and the state of each of them by indicating the voltage, current and status of the power source

SECURITY SOLUTIONS

HF Secure Call

A point-to-point or point-to-multipoint secure call system initiated by entering key jamming and transmitting a secure call for radio barett.

HF Frequency hopping

5 or 25 hops per second - no central synchronization station, no network entry delay or entry delay retardation. GPS required

HF Secure digital voice with encrypted AES 256

600/1200/2400 secure digital voice module auto vocoder with AES 256 encryption Includes :

- "TWELP" vocoder
- Clear Digital Voice

Note :

- Factory internal adjustment only.
- This option requires management and key filling software ref. 2090-01-50.
- Can be implemented with Mil Data standards.
- Can be implemented alongside Clover Data (internal adjustment).

VHF RTI In-line Voice & Position Encryptor



- AES-256 Encryption: Voice & Position Transmissions
- 600 – 2400 bps Digital Voice Rates
- Powered from the radio
- TWELP* Vocoder
- High Voice Clarity
- Automatic Vocoder Rate Adjustment
- Automatic Clear Voice Reception (FM/SSB)
- V/UHF & HF Transceiver Compatible (SSB & FM)
- Cross-Vendor Radio Interoperability
- Extended Range, including BLoS Links
- GPS & GLONASS Support Built-in
- Automatic Periodic Position Transfer
- Over-the-Air compatible with all other RT products
- RTI Handset / Headset / Speaker-Mic Variants
- 4.5 – 18 V DC Input with Surge Protection
- Zeroize Function
- Blue Force Tracking via RT CommandPoint

AUTOMATIC LINK ESTABLISHMENT (ALE)

HF 2G ALE (MIL-STD 188-141B)

Capability includes NET call, ALL call, any call, group call, wildcard call, ALE beacon and In-link AMD messaging, 20 networks and 500 available channels - JITC certified.

Note:

- When using ALE at least one ALE fill program is required by the system administrator to set up the ALE network
- This fill program is included in the 2090 programming kit, P/N 2090-01-30.

HF 3G ALE (STANAG 4538) GPS REQUIRED

*3G ALE is a data link protocol

INTEROPERABILITY SOLUTIONS

GVI

Single port radio over IP (RoIP) gateway for 'critical operations' mission.

The radio over IP (RoIP) gateway is a robust portable radio gateway that provides a single land mobile radio (LMR) port for connecting voice radios to IP networks

The robust and compact form factor of the GVI is ideal for strategic voice communications over IP networks in fixed and mobile roles.



VOYAGER EMM

VoyagerEMm is an integrated radio over IP (RoIP) system with interfaces for radio, Ethernet and handset audio. Thanks to its ultra-low energy requirements, VoyagerEMm is ideal for battery-powered applications where SWaP is essential.

A flawless stay

VoyagerEMm provides four E&M radio interfaces for audio connection to PTT (Push-To-Talk) radios

Three Ethernet ports are also available with a handset / headset / speaker connector for handsets such as the military H-250.

VoyagerEMm is designed for use in harsh environments and is housed in a reinforced chassis with dust caps on all ports.



RV2 RADIO VOICE BRIDGE

- Voice gateway between two radios
- up to two different radios monitoring
- Select individual radios to use
- Robust design voice activity detection (VAD)
- Automatic gain control (AGC)
- Built-in speaker



DISPATCH SYSTEM CONTROLLER

4/6/8/12 channel system

Radio interface.

user contact interface (dispatcher)

In production