

Industry Application - Aviation



The Barrett High Frequency (HF) turn-key systems are rugged and versatile, offering 1.6 MHz to 30 MHz, 125W/150W as well as fully integrated for 500W and 1000W PEP. Barrett Communications transceivers and systems are field proven in over 150 countries around the globe and can be easily configured to meet the customers' exact operational requirements.

Beyond the range where typical line of sight VHF and UHF systems fail; where alternative satellite communications (SATCOM) or terrestrial solutions are unavailable, Barrett digital voice and high speed data solutions have a proven track record in delivering dependable, line of sight and beyond line of sight voice and data communications.

Barrett HF systems have been used in airports and aircraft around the world

The Barrett systems provide for all common modes of HF transmission including all current ARINC SELCAL (ICAO standard) modern Selective Call formats, optional MIL-STD 188-141B Automatic Link Establishment (ALE), 3G STANAG 4538 ALE (3G ALE) and a new generation, simple to operate, frequency hopping option.



Barrett 4050 SDR Transceiver

Barrett HF systems have been used in airports and aircraft around the world, they are ICAO compliant and are ideal for console and remote control installations. Barrett transceivers can be used in manpack portable, land mobile and base station configurations. Our systems are used for ground to ground and ground to air voice and data communications for strategic, emergency, security and tactical applications. Barrett offers systems from 30W to 1kW PEP which are suited to all varieties of applications.

When teamed with other Barrett systems Barrett HF transceivers can provide email, fax and telephone interconnect. The unique design of the Barrett HF Systems afford integrators and end users the ability to customize their installation to meet unique and individual user requirements.

'Whether it's noise resistant remote control over serial, IP, fibre optic or other mediums, Barrett systems are ideal to meet the most complex installation requirements'



Barrett 912 antenna at Arkansas Regional Airport



Barrett 918 long periodic antenna at a Malaysian Airport

Whether it's noise resistant remote control over serial, IP, fibre optic or other mediums, Barrett systems are ideal to meet the most complex installation requirements.

Barrett HF systems are platform agnostic with adaptable components to accommodate the most difficult scenarios

Barrett HF systems have been installed in the United States and Australia and in the most austere locations, including the Antarctic for aeronautical, ground to ground and air to ground applications by Civil Aviation Authorities, Air Force, Police and Border Security, cargo and commercial uses. Barrett HF systems are platform agnostic with adaptable components to accommodate the most difficult scenarios.

Barrett HF systems, when paired with the Barrett 2020 series high speed data modems and digital transmission software are ideal for large and small payload data, with effective data rates up to 19.2kpbs and highly efficient chat modes with native language support.

Additional Features Include:

- Two-way high speed fax and data & email transmission via Barrett 2020 system
- STANAG 4539 Military Modems
- Secure Digital Voice & Frequency Hopping options
- Vehicle tracking using on board GPS receiver
- SMS text paging facility
- B.I.T.E. (Built in test equipment)
- Network Diagnostics
- Telephone access via Barrett 2060 Telephone Interconnect Base Station allowing Radio Direct Dialed (RDD) to and from the Public Subscriber Telephone Network (PSTN)
- HF to V/UHF cross patching via Barrett 2062 Crosspatch
- High power transmission options using the Barrett 4075 Transmitter

