



- **Advanced Digital Signal Processing**
- Designed for full-duplex, half duplex, or simplex operation
- Compact desk-top package
- **Built-in speaker with volume control** to monitor call progress

The Barrett 2061 HF phone patch provides an interface between an HF network and the International telephone network, allowing HF stations to be connected to telephone subscribers and vice versa.

The Barrett 2061 uses a unique adaptive hybrid to convert the four-wire audio from the transceiver to two-wire audio for the phone line. An adaptable hybrid, implemented with digital signal processing (DSP), provides continually recalculated isolation between the off air HF signal and the telephone user, producing a reliable VOX signal (Voice Operated Xmit (transmit)) to key the transmitter when the telephone subscriber's voice is present.

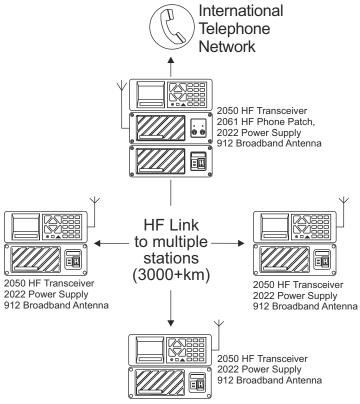
DSP based automatic adaptive hybrid that balances the telephone line continually with no adjustments, eliminating oscillation in full duplex circuits, false VOX tripping and time consuming setup.

The 2061 is packaged in a 2000 series enclosure and is designed for direct interface via our standard bus cable to the Barrett 2050 transceiver. It can however, be interfaced to other suitable HF transceivers.



Barrett 2061 HF Phone patch rear panel

Network example









General specifications

Output level to phone line Input level from phone line Frequency response Output impedance to phone line VOX sensitivity VOX hang time Ultimate hybrid balance

Telephone line connector Local telephone set connections Connector to transceiver **Indicators**

Front panel controls

Rear panel control Input power

Input current Size

Weight

Transceiver interface

Rx audio input Tx audio output Frequency response VOX key output Switching speed

Environmental

Operating temperature Storage temperature Humidity

Shock **Vibration** Nominally 0 dBm Nominally 0 dBm 300 to 3000 Hz ±2 dB

600 ohm

Adjustable internally

0.5 seconds

-50 dB measured with a single

tone **RJ-11C** RJ-11C **DB-25** "CONNECT"

"OPERATOR OVERRIDE"

"CONNECT" "DISCONNECT"

"OPERATOR OVERRIDE" Monitor volume control +11 to +15 V DC (12 V DC nominal) 80 mA@+12.6 V DC input 185(w) x 270(d) x 70(h) (2000 series standard enclosure)

0.8 kg

Balanced 600 ohm @ 0 dBm Balanced 600 ohm @ 0 dBm 300 to 3200 Hz ±2 dB

Open collector

5 mS

-20°C to +55°C -40°C to +85°C Up to 95% @ 55°C

MIL-STD 810G Method 516.6 MIL-STD 810G Method 514.6

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



2061 Phone patch front 99 2061 Phone patch top -270 mm

2061 Phone patch side mm

BCB20610/14



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