2061 HF Phone Patch

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 HF network user provides the base station operator with the telephone number required. The operator dials the number on the telephone connected to the 2061 interface unit. When the telephone subscriber answers, the station operator switches the 2061 to "CONNECT". The automatic VOX is activated and the call between the HF network station and the telephone subscriber proceeds automatically, the transmitter being keyed by the telephone subscriber's voice. During the call the station operator can speak to both parties by using the "OPERATOR OVERRIDE" switch. At the completion of the call the station operator switches the 2061 to "DISCONNECT".

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.

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 Phone Patch front panel

Barrett 2061 Phone Patch rear panel

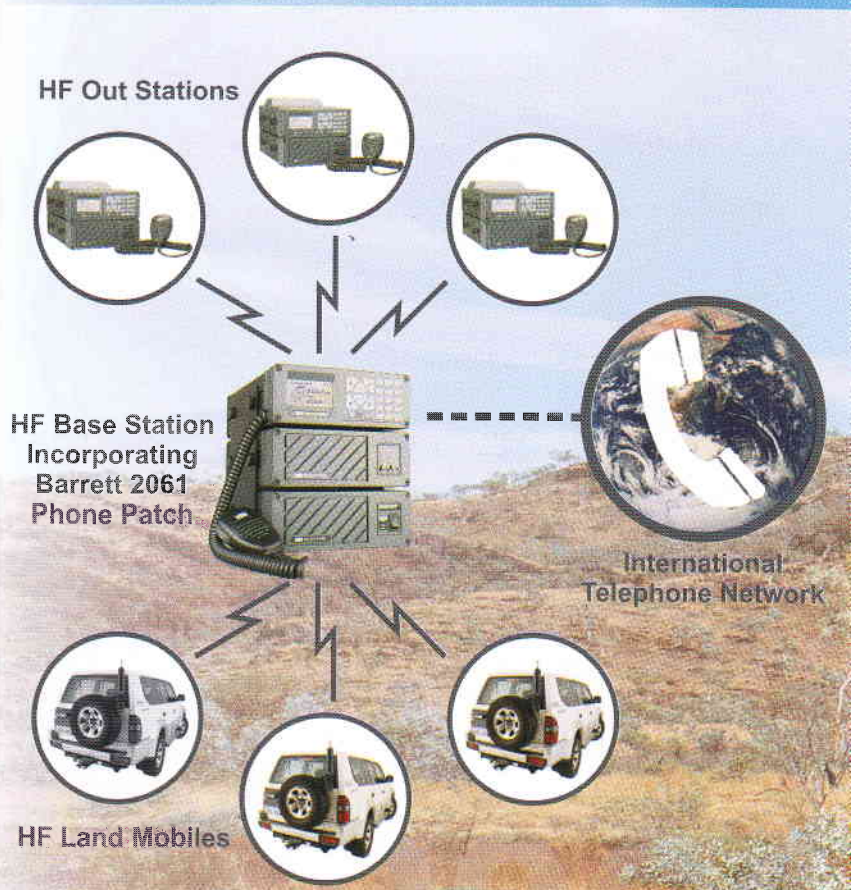
Features

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.

Designed for full-duplex, half-duplex, or simplex operation.

Compact desk-top package.

Built-in speaker with volume control to monitor call progress.



2061

BARRETT COMMUNICATIONS
ADVANCED HF SSB EQUIPMENT

2061 HF Phone Patch

Specifications

Output level to phone line	Nominally 0 dBm
Input level from phone line	Nominally 0 dBm
Frequency response	300 to 3000 Hz ± 2 dB
Output impedance to phone line	600 Ω
VOX sensitivity	Adjustable internally
VOX hang time	0.5 seconds
Ultimate hybrid balance	-50 dB measured with a single tone

Transceiver interface

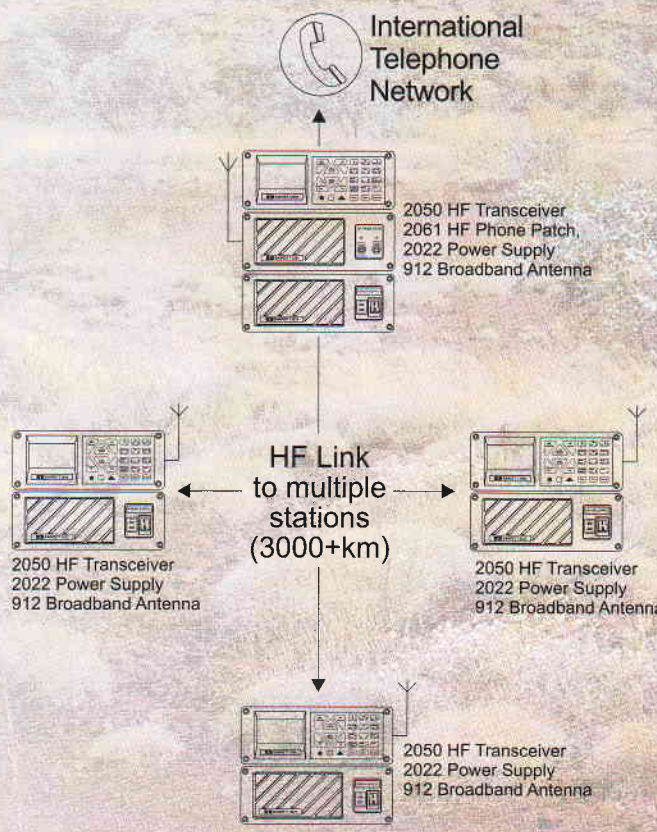
Rx audio input	Balanced 600 Ω @ 0 dBm
Tx audio output	Balanced 600 Ω @ 0 dBm
Frequency response	300 to 3200 Hz ± 2 dB
VOX key output	Open collector
Switching speed	5 mS

General

Telephone line connector	RJ-11C
Local telephone set connections	RJ-11C
Connector to transceiver	DB-25
Indicators	"CONNECT" "OPERATOR OVERRIDE"
Front panel controls	"CONNECT" "DISCONNECT", "OPERATOR OVERRIDE"
Rear panel control	Monitor volume control
Input power	+11 to +15 VDC (12VDC nominal)
Input current	80mA @ +12.6 V input
Size	185mm W x 270mm D x 70mm H (2000 series standard enclosure)
Weight	0.8kg

Environmental

Operating temperature	-20°C to +55°C
Storage temperature	-40°C to +85°C
Humidity	Up to 95% @ 55°C
Shock	MIL-STD-810D method 516.3 procedure VI
Vibration	MIL-STD-810D method 514.3 Category



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