

2062 HF-VHF/UHF Crossgate

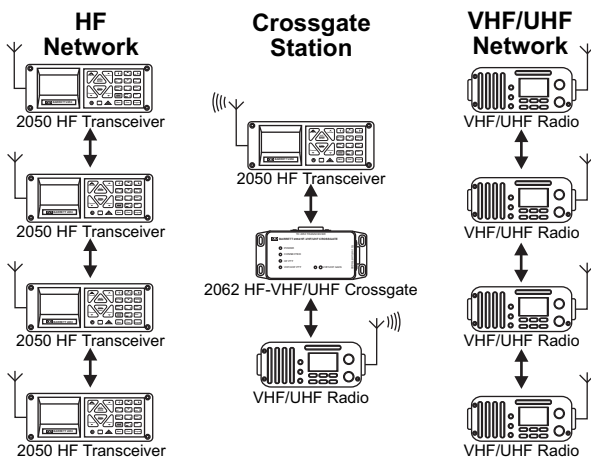
Barrett's 2062 HF Crossgate is a practical, effective and affordable solution for extending the line of sight reach of a conventional VHF/UHF networks by linking them to an HF network using Barrett's HF transceivers. The 2062 can also be used to give field operators with VHF/UHF handheld radios access to the HF network when away from their vehicles.

With the 2062's small size, intuitive user commands and flexible interface to OEM VHF/UHF transceivers makes connection between existing HF and VHF/UHF networks simple and with a minimal investment.

The 2062 cross patch links the HF and VHF/UHF networks by either a specific selcall sent from the and HF station on the HF network or by a specific DTMF sequence sent by a station on the VHF/UHF network. When the networks are linked, received audio from the HF network is broadcast on the VHF/UHF network and visa versa. The link is closed by transmitting a specific selcall from the HF network or a specific DTMF sequence on the VHF/UHF network.

Features

- Simple to operate
- Small physical size – easy to fit in vehicles.
- Flexible interface for OEM VHF/UHF transceivers



Specifications

VHF Signal Connections Description

- Balanced audio in VHF Rx balanced audio in, 600 Ω input impedance, 0dBm recommended.
- VHF speaker level audio in VHF radio speaker level single ended audio input, 10 kΩ input impedance, gain adjustable on the Crossgate.
- VHF mute in VHF Audio Out Active low, VHF radio mute state input, optically isolated.
- VHF Mic. Level Audio Out VHF Tx VHF balanced audio out, 0dBm nominal into 600 Ω load.
- VHF PTT out VHF Tx single ended audio out, mic. Input level.
- VHF ground Active low, VHF radio external PTT keying.

HF Signal Connections Description

- HF ground 0 Volt HF radio ground.
- +13.8 V +13.8 V Power from HF radio.
- RS-232 I/O RS-232 control signals between HF radio and Crossgate.
- Balanced audio in HF Rx balanced audio in, 600 Ω input impedance, 0dBm recommended.
- Balanced audio out HF Tx audio out, 0dBm nominal, into 600 Ω load.
- HF PTT out Active low HF radio external PTT keying.
- HF mute in Active low HF radio mute state input.

Control Function

- Initiate patch/transmit Selcall

DTMF Code

*XXXX(XX)##

Notes

XXXX(XX) is a 4 digit or 6 digit Selcall ID.
VHF/UHF Annunciation: "Selcall XXXX(XX) Sending, Patched in", followed by a connection tone.
VHF/UHF Annunciation: A hangup tone followed by "DTMF Hangup, Patched out".
XX is the HF network channel number, in the range of: 01 to 50
VHF/UHF Annunciation: "Channel XX Selected".

Terminate patch 99

Select HF channel XX

General

Indicators

"Power on", "Connected", "HF PTT", "VHF/UHF PTT", Speaker level clip indicator.
"VHF/UHF speaker level gain"

Controls

Input power
Input current
Sealing
Weight

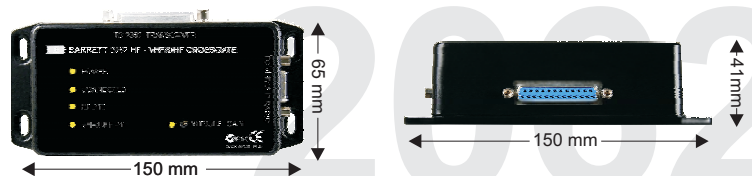
+11 to +15 V DC (12 V DC Nominal)
176 mA @ +12.6 V input
IP41
0.18kg

Environmental

Operating temperature
Storage temperature
Humidity
Shock
Vibration

-20°C to +55°C
-40°C to +85°C
Up to 95% @ 55°C
MIL-STD-810D, method 516.3 procedure VI
MIL-STD-810D, method 514.3 Category

Dimensions



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