



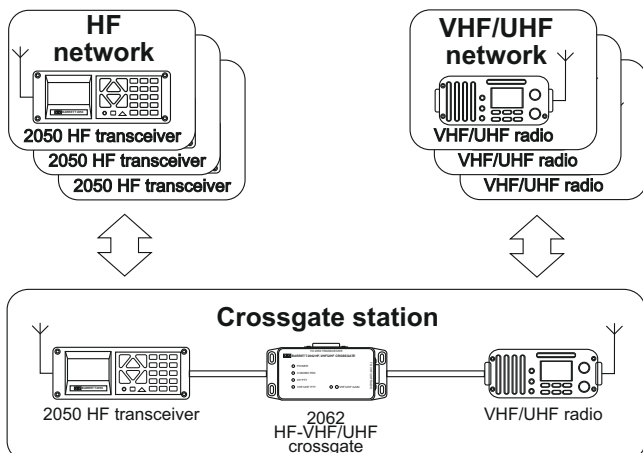
- **Simple to operate**
- **Small physical size - easy to fit in vehicles**
- **Flexible interface for OEM VHF/UHF transceivers**

The Barrett 2062 HF Crossgate is a practical and effective solution for extending the line of sight reach of conventional VHF/UHF networks by linking them to a HF network using a Barrett HF transceiver. The 2062 is designed to give field operations with VHF/UHF handheld radios access to the HF network when away from their vehicles. The 2062 is also capable of HF channel selection, which allows the VHF user to select the best HF channel to transmit from.

The Barrett 2062 is small in size and weight making it easy to fit in vehicles and has the intuitive user commands Barrett products are known for. The flexible interface to OEM VHF/UHF transceivers, makes connection between existing HF and VHF/UHF networks a simple and cost effective solution.

The 2062 Crossgate links the HF and VHF/UHF networks by either a specific Selcall sent from a 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 vice versa. The link is closed by transmitting a specific Selcall from the HF network or a specific DTMF sequence on the VHF/UHF network.

Typical 2062 HF-VHF/UHF crossgate network example



General specifications

Indicators	Power on- Connected- HF PTT VHF/UHF - PTT", Speaker level clip indicator
Controls	"VHF/UHF speaker level gain"
Input power	+11 to +15 V DC (12 V DC nominal)
Input current	176 mA @ +12.6 V input
Sealing	IP41
Weight	0.18 kg

VHF/UHF Signal connections

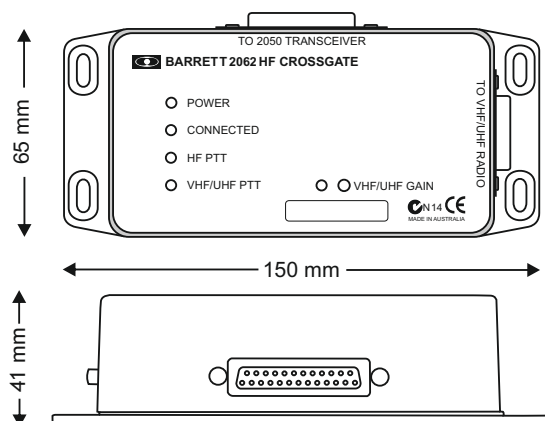
Balanced audio in	Rx balanced audio in, 600 ohm input impedance, 0 dBm recommended
VHF/UHF speaker level audio in	Radio speaker level single ended audio input, 10 k ohm input impedance, gain adjustable on the crossgate
VHF/UHF mute in	Active low, radio mute state input, optically isolated
VHF/UHF audio out	Tx balanced audio out, 0 dBm nominal into 600 ohm load
VHF/UHF mic level audio out	Tx single ended audio out, mic input level
VHF/UHF PTT out	Active low, radio external PTT keying
VHF/UHF ground	0 V radio ground, internally RF isolated

HF Signal connections

HF ground	0 VHF 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
HF balanced audio in	Rx balanced audio in, 600 ohm input impedance, 0 dBm recommended
HF balanced audio out	Tx audio out, 0 dBm nominal, into 600 ohm load
HF PTT out	Active low radio external PTT keying
HF mute in	Active low radio mute state input

Environmental

Operating temperature	-20°C to +55°C
Storage temperature	-40°C to +85°C
Humidity	Up to 95% @ 55°C
Shock	MIL-STD 810G
Vibration	MIL-STD 810G



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