



- Interoperability between Barrett HF and Barrett VHF communication systems
- Allows deployed troops to communicate directly with far distant command and control centres
- Reduces delays in communicating time critical information

The Barrett 2063 HF-VHF Cross Gate provides seamless transfer of information from a Barrett VHF network onto a Barrett HF network without operator interaction.

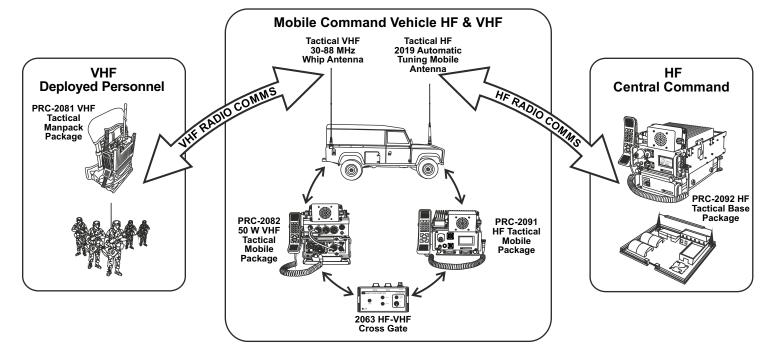
The fully automated switching reduces the time it takes to rebroadcast mission critical information. It also significantly reduces the likelihood of communication errors and allows Commanders in strategic locations to talk to their deployed assets directly.

A typical field scenario would involve a mobile command vehicle receiving information from deployed troops over a VHF communications system. If this information needs to be passed to a higher headquarters, it would be transmitted using the HF radio link. Any response back from the higher command to the deployed troops would then go through the same procedure in reverse.

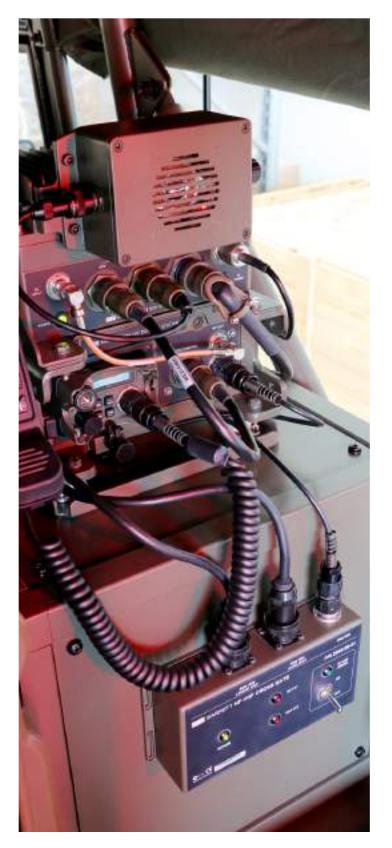
As shown in the diagram below, a Cross Gate located in the mobile command vehicle would enable direct communications between the deployed troops and the higher command on an as required basis.

The Barrett 2063 Cross Gate operates by establishing a transmit/receive path between HF and VHF networks connected at the Cross Gate station in the mobile command vehicle. When the Cross Gate is "Linked", the Cross Gate relays all voice transmissions between the two networks.









General specifications

"VHF PTT", "HF PTT", "Power on", "HF <-> VHF1 inked"	
"HF <-> VHF Link Switch"	
+13.8VDC from HF radio	
< 100mA@13.8V input	
VHE Signal Connections	
VHF Signal Connections VHF Balanced Audio (RX) RX Balanced audio in, 600 Ohm input	
RX Balanced audio in, 600 Ohm input	
impedance, 0dBm recommended, DC offset 0 to 12V	
Tx audio out, 0dBm nominal into 600	
Ohm load, DC offset 0 to 12V	
Ring (+12VDC), Tip 0VDC	
Tip (+12VDC), Ring 0VDC	
0V radio ground	
S	
0V VHF radio Ground +13.8V +13.8V	
from VHF radio	
RX Balanced audio in, 600 Ohm input	
impedance, 0dBm recommended Tx audio out, 0dBm nominal into 600 Ohm	
load	
Active low radio external PTT keying	
Active low radio mute state input	

Operating temperature Storage temperature Humidity Shock Vibration Weight (including cables) Weight (without cables) Dimensions in mm

-20C to +55C -40 to +85C up to 95% @ 55C MIL-STD 810G MIL-STD 810G 1050g 650g 203 L x 116 W x 70 H (inc switches and connectors)

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

Head Office: Barrett Communications Pty Ltd 47 Discovery Drive, Bibra Lake, WA, 6163 AUSTRALIA Tel: +61 8 9434 1700 Fax: +61 8 9418 6757 Email: information@barrettcommunications.com.au



BCB2063/1

www.barrettcommunications.com.au