

HF Crosspatch 3031

HF on Your Belt

Patent Pending

Codan's 3031 HF Crosspatch is a practical, effective and affordable solution for extending the reach of a conventional VHF/UHF network beyond the horizon using Codan's HF transceivers. The 3031 also enables organisations to extend existing Codan HF networks with VHF/UHF hand-held radios that are carried by field operators when away from base or their vehicle.

With the 3031's unique, flexible design and straightforward user commands, organisations can extend existing HF or VHF/UHF networks into remote areas with minimal investment in new infrastructure.

KEY FEATURES

Easy to use

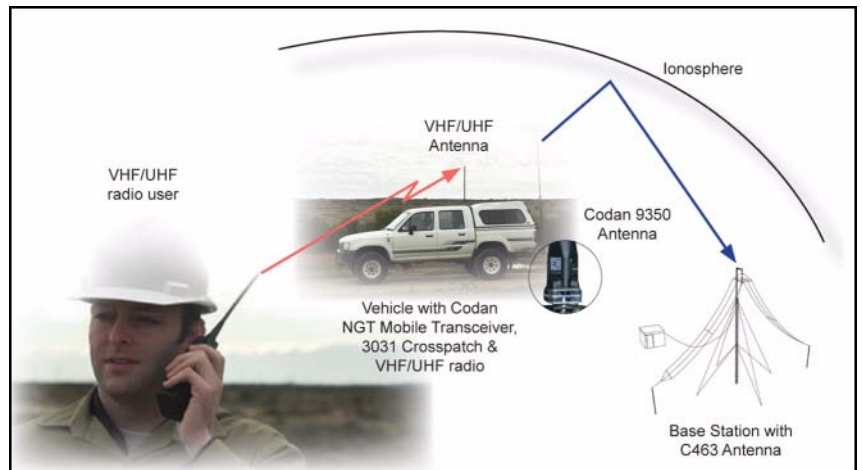
The 3031 Crosspatch uses a straightforward set of over-the-air DTMF tones or Press-To-Talk (PTT) clicks from a VHF/UHF radio to initiate calls from a Codan HF transceiver. These calls can be used to gain assistance in an emergency or as part of normal daily communications, such as checking back to base. Alternatively, calls can be made from a Codan HF transceiver to field operators using VHF/UHF radios. With the extensive capabilities of Codan's HF transceivers, a wide range of applications are available.

Easy installation

Codan HF transceivers automatically enable the crosspatch functionality when a 3031 is detected. Only a single cable is required to connect the 3031 to the VHF/UHF radio. Installation and alignment does not require special tools.

Designed for mobile use

Its compact and lightweight design makes the 3031 ideal for vehicle installations where space



is limited and ruggedness is essential. It includes advanced *HFCommander™* technology to overcome the difficulties typically experienced with traditional HF crosspatch equipment.

Industry standards

The 3031 Crosspatch has been designed to complement any existing VHF/UHF radio network. By using industry standard DTMF signalling and a flexible VHF/UHF hardware interface, the 3031 has been designed to have the widest compatibility possible with existing VHF/UHF infrastructure.

A subset of functionality has been provided to VHF/UHF radios without DTMF capability through the use of a sequence of PTT key clicks.

Rugged and reliable

As with all Codan equipment, the 3031 Crosspatch is a rugged, reliable, compact unit that has been designed to survive in extreme conditions, and comes with a full three year warranty.



3031 HF Crosspatch

HOW IT WORKS

The 3031 Crosspatch interfaces between a Codan HF transceiver and a third-party VHF/UHF FM radio.

When the 3031 is activated, audio received by one transceiver is relayed to the other corresponding transceiver, effectively joining the two radio networks together. When the 3031 is deactivated both transceivers operate independently and in their normal state.

The 3031 can be enabled either from the Codan HF transceiver interface or via a series of straightforward commands sent via a VHF/UHF radio. A user-friendly Quick Reference Sticker with user instructions is provided.

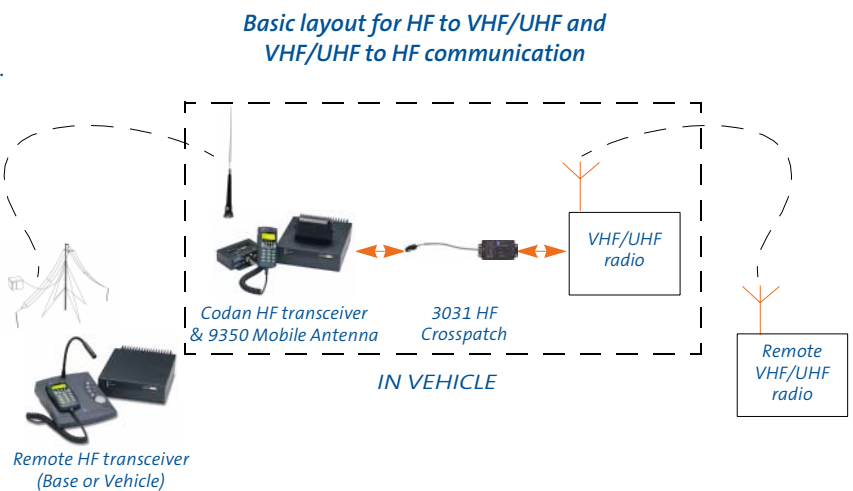
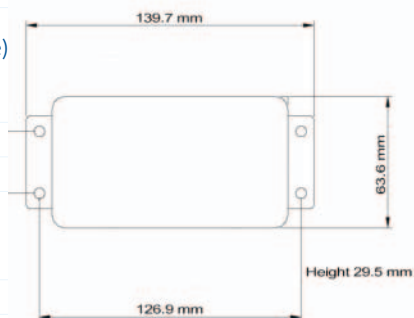
Full functionality is available with VHF/UHF radios supporting DTMF signalling. A subset of this functionality is also available for basic or older non-DTMF VHF/UHF radios.

WHO CAN USE IT

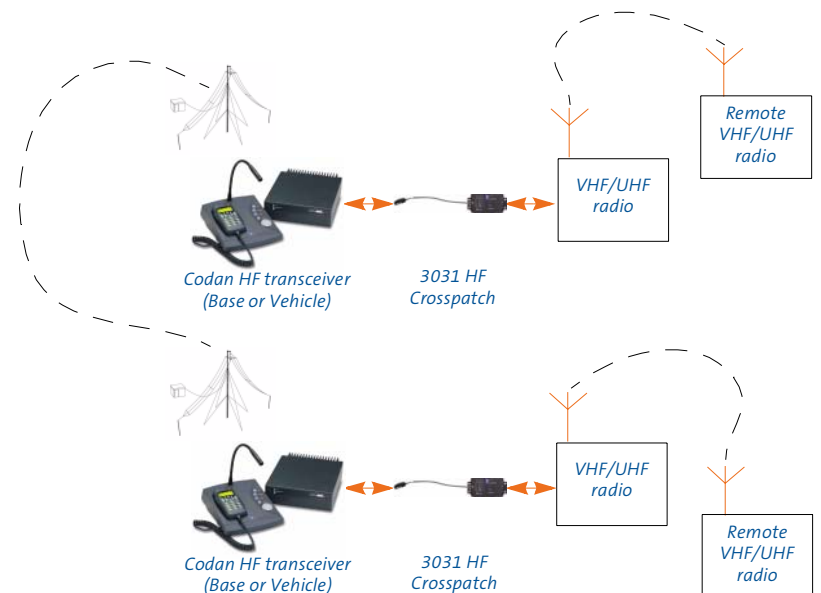
The 3031 Crosspatch is designed for any organisation that needs to extend their current HF or VHF/UHF radio networks beyond their normal area of operation. The 3031 can be integrated into either mobile or fixed installations, enabling the greatest flexibility to match the operational requirements of any organisation.

SPECIFICATIONS

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|-------------------------|--|
| VHF/UHF Tx signal level | 10 mV p-p to 3 V p-p, nominal |
| VHF/UHF Rx signal level | 10 mV p-p to 3 V p-p, nominal 600 Ω output impedance (selectable) Balanced/unbalanced audio (selectable) |
| Operating voltage | 9 to 16 V DC |
| Power consumption | Less than 100 mA (13.8 V supply) |
| Environment | |
| Ambient temperature | -30 to +70°C |
| Relative humidity | 95% non-condensing |
| Size | 140 mm W x 65 mm D x 31 mm H |
| Weight | 0.2 kg (0.5 lb) |
| Sealing | IP41 |



Trunked layout for HF link between separate VHF/UHF networks



NOTE: The HF transceiver must be a Codan NGT/2110 model that has a General Purpose Input/Output (GPIO) port, such as the NGT SRx, SR, ASR and 2110 series Transceivers.

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

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