

GATEWAY

3032 CROSSPATCH

The Codan 3032 Crosspatch provides a simple and cost-effective solution for extending the range of land mobile radio networks using the beyond line-of-sight capabilities of Codan HF radios.

The 3032 Crosspatch incorporates capabilities such as DTMF based control, voice announcements, and address based calling, to ensure that both HF and land mobile radio parties have a high level of operational awareness and control. Fully compatible with Codan's state of the art HF digital voice capability, excellent end-to-end voice quality across the disparate radio networks is assured.

KEY FEATURES

- HF to V / UHF patching
- HF to V / UHF audio patching
- Digital and analogue HF voice compatible
- 2G and 3G ALE compatible
- Easy to use
- DTMF control from V/UHF radios
- Voice announcements
- Emergency call capability
- PC based programming
- Low power consumption
- Compact form factor

CONFIGURATION AND UPGRADE

Configuration of the 3032 Crosspatch is achieved using the specially designed Codan Crosspatch Programming Software (CPS) application which runs on a PC device connected to the 3032 via the USB programming port.

CPS is supplied with a library of pre-set configuration files for a large range of supported Codan HF and third party VHF and UHF radio models, complimented with the ability to generate, and save to file, user-defined configurations, when required. Programming of the configuration files is possible with the 3032 uninstalled, as it can be powered by the programming device via the USB connection. CPS also provides the ability for firmware upgrade of the 3032 Crosspatch, ensuring that upgrades can be easily accommodated through the life of the product.

The 3032 is provided as standard with English language voice announcements, with male or female version selectable via CPS. The 3032 also supports programming of user-defined voice announcement files providing valuable scope for customising to specific language or operational needs.



EASY TO USE

The 3032 Crosspatch utilises over-the-air DTMF tones from a VHF / UHF radio to initiate preset or free form selective calls to remote HF stations and control key capabilities of the HF radio in the Crosspatch system such as digital voice vocoder rate, voice encryption state, and the channel for use.

For other applications and where non-DTMF capable VHF / UHF radios are used, Press-To-Talk (PTT) sequences can be used to set a default channel or initiate a pre-configured call to a remote HF station by the Crosspatch HF radio. This capability can assist organisations to create a safer work environment for employees operating in remote locations by providing a simple method of requesting emergency assistance. Voice announcements are transmitted to the remote VHF / UHF radios to confirm DTMF and PTT events and announce important system status information. These capabilities combine to provide a highly flexible and user-friendly cross banding solution.

COMPATIBILITY

The 3032 Crosspatch is fully compatible with Codan HF radio capabilities such as Selcall, 2G, and 3G ALE, as well as latest generation Codan Digital Voice in both encrypted and non-encrypted modes, and for all supported Digital Voice vocoder rates.

The 3032 is fully compatible with Codan HF software-defined radios and a wide range of third party radios due to the generic electrical design and software configurability of the VHF / UHF radio interface.

EASY TO INSTALL

The compact form factor of the 3032 Crosspatch, and supplied snap-lock style mounting bracket, provides flexibility of positioning when installing, especially for vehicular scenarios.

The Crosspatch unit incorporates an LED that displays the unit's operational and configuration status. The USB programming port enables quick and easy connection of a PC running the 3032 Crosspatch Programming Software (CPS) if required.

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GENERAL	
Radio connector type	High density 15-way D connectors
HF radio interface signalling	RS-232, TX/RX audio, PTT, DC input
V/UHF radio interface signalling	RS-232, TX/RX audio (balanced/unbalanced), PTT, Squelch
Programming port	Mini USB
Status indicator	LED – multicolour
Supply voltage range	10 V – 16 V DC
Power consumption	< 50 mA at 13.8 V DC
Temperature range	-30°C + 60°C (operational), -40°C + 85°C (storage)
Environmental	MIL-STD-810G for Drop, Shock, and Vibration
Size	98.20 L x 81 W x 28 mm H, without mounting bracket (3.9 L x 3.2 W x 1.1 in H) 98.73 L x 91.88 W x 37.59 mm H, with mounting bracket (3.9 L x 3.6 W x 1.5 in H)
Weight	191 g (0.42 lb), without mounting bracket 237 g (0.52 lb), with mounting bracket
Radio Compatibility	HF radios: Codan Envoy X2, Sentry-H 6120-BM Codan tested V/UHF radios: - Motorola DM4600/DP4800e, Motorola MTM5400/MTP3550 - Tait TM9400/TP9400 - Codan MT4E, Codan 6150 VHF, Codan 6160 Soldier

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

ACCESSORIES

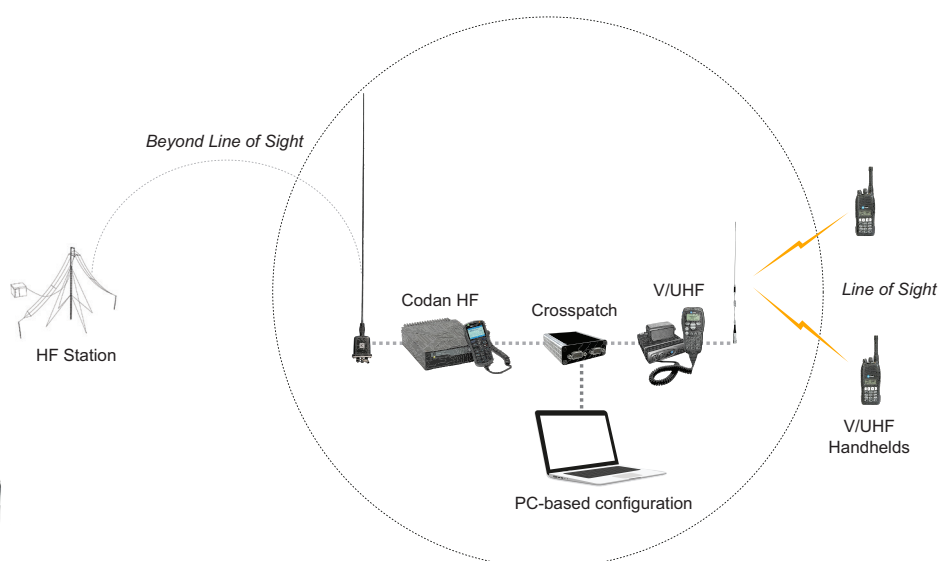
- Codan Programming Software (CPS) – delivered on a USB flash drive
- USB programming cable
- Installation fastener kit
- Codan HF radio interface cables
- V/UHF radio interface cables
- Spare mounting cradle
- Printed User Guide
- Printed Quick Reference Card



Radio connector end



Programming and status LED end



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