Solving challenging requirements is what we do best

CONTACT US

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TECHNICAL SPECIFICATIONS

CONFIGURATIONS

Versatile design for mobile, base and complex systems

Envoys are designed using a modular approach, with a handset for mobile applications and a desk console for bases. The use of IP over Ethernet enables geographical separation of the radio and console, without the need for expensive adaptor devices. Envoys are available in rapidly deployable cases.

supports and challenge

- Human needs
- Operational environment
- Opportunities and challenges
- Cultural context
- Scenario planning

Our technical consultants will conduct a detailed on-the-ground assessment of:

- Human needs
- Operational environment
- Opportunities and challenges
- Cultural context
- Scenario planning

Our field service team will then design a custom solution for those challenges, using the right hardware and software from Codan or one of our technology partners.

Our specialist logistics team gets the hardware and the resources to wherever you are, getting your system up and running fast.

We'll train operators and communications staff on how to use the system – which will be a short process, thanks to our easy-to-use interfaces and interoperability.

We’re available to be deployed within 24 hours for any support required. And we’re always on hand for any advice you require.

ENVOY X1

FREQUENCY

Tx 1.6 to 30 MHz
Rx 250 kHz to 30 MHz

CHANNELS

100

SCAN GROUPS

10

TEMPERATURE RANGE

-30°C to +60°C

HUMIDITY

95%

OUTPUT POWER

125W PEP

VOLTAGE RANGE

10.8 to 13.8 V DC

CURRENT DRAM

Tx 12.5A
Rx 500mA

NAVSECTION

Acoustic Voice

Digital Voice (MELPe/TWELP)

FED-STD ALE & MIL-STD-ALE

STANAG 4539 Data

DIMENSIONS

RFU 210 x 270 x 65 mm (D x W x H)
Handset 75 x 32 x 151 mm (D x W x H)
Console 190 x 228 x 79 mm (D x W x H)

WEIGHT

RFU 2.8kg
Handset 0.3kg
Console 1.1kg

SUPPORTED ACCESSORIES

Morse key, GPS Receiver

Data Modem (internal / external), 2240

M2000, Crosspatch, Telephone Interconnect, etc.

SUPPORTED APPLICATIONS

TPS-3250, KMS/KFS, Codan Chat, TCS-3250, etc.

LANGUAGES

English, Arabic, Dari, Pashto, Chinese, French, Portuguese, Russian, Spanish

PROTECTION

Over Voltage, Under Voltage

Over Temperature, Reverse Polarity

PRODUCT TYPE NUMBERS

RF Unit: 2210, Full Handset: 2220, Limited Key Handset: 2221, Console: 2230

BE HEARD

CODANCOMMS.COM
### YOUR CODAN ENVOY SOLUTION

<table>
<thead>
<tr>
<th><strong>GATEWAYS</strong></th>
<th><strong>POWER SOLUTIONS</strong></th>
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</thead>
<tbody>
<tr>
<td>3033 Ti</td>
<td>3061 500W</td>
</tr>
<tr>
<td>Codan’s Telephone Interconnect equipment to connect multiple telephone systems enabling you to make or receive telephone calls on your HF transceiver.</td>
<td>A reliable and affordable 500W high power solution for voice and data communication.</td>
</tr>
<tr>
<td>2240 SMARTLINK</td>
<td>3062 1KW</td>
</tr>
<tr>
<td>Smartlink provides the ability to support multiple transmitters from a single Envoy HF radio and provides an in-built 3G/4G wireless access point and two wired Ethernet ports for connectivity.</td>
<td>A reliable and affordable 1KW high power solution for voice and data communication.</td>
</tr>
<tr>
<td>3031 XPATCH</td>
<td>3040 1KW</td>
</tr>
<tr>
<td>Codan’s 3031 Dipsatch enables you to carry HF communication systems even if the Envoy HF radio or a Codan Envoy Radio needs to be extended a HF and VHF/ UHF network.</td>
<td>A reliable and affordable 1KW high power amplifier.</td>
</tr>
</tbody>
</table>

### DATA

<table>
<thead>
<tr>
<th><strong>EMAIL/FILE</strong></th>
<th><strong>BATTERY BACKUP</strong></th>
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<tbody>
<tr>
<td>Codan offers various solutions for email and file transfer for both HF and web based communications.</td>
<td>12V deep cycle battery capable of supplying the Envoy transceiver and antenna.</td>
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</table>

### REMOTE

<table>
<thead>
<tr>
<th><strong>XTEND</strong></th>
<th><strong>SOLAR</strong></th>
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</thead>
<tbody>
<tr>
<td>XTEND The Codan XTEND app allows you to operate your Envoy HF radio via your smartphone or tablet. Using the widespread functionality of smartphone devices, XTEND provides an exceptionally easy-to-use alternative to a dedicated radio control point.</td>
<td>Solar solar charging solutions are available to maintain a supply battery for the Envoy HF radio and antennas.</td>
</tr>
<tr>
<td>Virtual Control Point controls the Envoy via a PC via the Virtual Control Point, a digital replica of an Envoy 2200 handheld that emulates similar functionality.</td>
<td></td>
</tr>
<tr>
<td>Internet Protocol</td>
<td></td>
</tr>
<tr>
<td>Controls and communicates through your Envoy transceiver using remote solutions through the internet, even if the remote radio is on the other side of the world.</td>
<td></td>
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</tbody>
</table>

### ANTIETORS

<table>
<thead>
<tr>
<th><strong>ASSET MANAGEMENT AND TRACKING</strong></th>
<th><strong>HIGH POWER AMPLIFIERS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Codan’s Remote Tracking Software provides an effective means to log, track and manage remote assets with no on-going subscription fees.</td>
<td>1KW and 500W high power solutions for voice and data communication.</td>
</tr>
<tr>
<td>Convoys internal Convoy communicate solution is the only communications platforms that integrates HF radio, satellite and cellular communications services into the one system.</td>
<td>A reliable and affordable 500W high power solution for voice and data communication.</td>
</tr>
</tbody>
</table>

### EXCEPTIOAL DIGITAL AND ANALOGUE VOICE CLARITY

Codan’s Digital Voice technology provides significantly reduced hiss, crackle, pops, and multi path effects typical of HF, making voice quality similar to modern cellular phones with continued operation in degraded and fading channels.

### SOFTWARE-DEFINED ARCHITECTURE

Envoy uses a state-of-the-art high-performance Digital Signal Processor (DSP) Field-Programmable Gate Array (FPGA) and system on chip (SoC) technology. Built upon a proven SDP platform with thousands of hours of operation in the field, Envoy delivers market-leading performance and future upgradability through software updates that support existing standards and ensure sustainability.

### INTUITE Operation

Envoy’s large high-resolution, sunlight-readable colour display and intuitive menu system makes operation similar to familiar smartphone. Making calls is as simple as navigating to your contact list, locating the desired contact and pressing the “call” button.

### ENCRYPTED COMMUNICATION

Envoy has a choice of encryption options to suit the required level of communications security. Ranging from basic voice security to “top secret” classification, all voice encryption options for Envoy activate by a single hotkey and can be automatically enabled on pre-defined channels or networks.

### SOFTWARE-DEFINED ARCHITECTURE

Codan’s XTEND app provides an effective means to log, track and manage remote assets with no on-going subscription fees.