

TRANSPORTABLE SYSTEM

FLYK-125

DTC
A CODAN COMPANY

The Codan FLYK-125 is a transportable ready-to-deploy mobile or base station HF communication system based on the Codan Envoy software defined radio (SDR). It is designed as a portable self-contained HF secure voice and data communications system housed in a rugged airline compatible case.

KEY FEATURES

- Rugged rapid deploy design
- Designed for airline transport
- Multiple power source compatibility - AC, DC, or internal battery backup
- Battery voltage readout
- USB charge port
- 125 W RF output power
- 1.6 – 30 MHz frequency range
- Intuitive colour, multi-lingual graphical user interface, and USB Smartloader
- Standards-based capabilities:
 - CCIR 493-4 Selcall
 - FED-STD-1045 / MIL-STD188-141B ALE (JITC Certified)
 - 3G ALE (STANAG 4538)
 - MIL-STD-188-110A/B (STANAG 4539) Data
 - MELPe (STANAG 4591) / Codan Digital Voice
 - AES-256 / CES-128 Encryption
- Optional add-ons:
 - Smartlink WiFi and Xtend Smartphone App
 - GPS Tracking
- Worldwide service and support

EASE OF USE

With the Codan Envoy X2 SDR at the heart of the FLYK-125, ease of use is assured. The handset form factor, smart icon driven menu system, and multi-lingual user interface ensures that requirements for training and familiarisation on the equipment is minimised, enabling critical resources to be focussed on the communications that the mission requires.

With a dual USB port facility, ancillary devices such as tablets, laptops, or smartphones can be easily connected and charged from the FLYK-125 unit.



RUGGED AND RAPID DEPLOY

The FLYK-125 is a rugged, compact, and powerful long-range voice and data radio communications system that ensures maximum mobility and quick deployment while also being easy to carry and store. The FLYK-125 has been carefully designed to meet international airline regulations for checked in luggage. With its compact form factor and full Codan SDR Envoy capability set, the FLYK-125 provides continuous reliable communication in a wide range of rapid deploy base and mobile applications.

The FLYK-125 is fully self contained and operates from a wide range of AC mains voltages, external DC input, or an internal back up battery that can provide short term operation while the AC mains / external DC power sources are unavailable.

Low battery voltage cutoff protection circuit is included to ensure battery longevity and continued performance.

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SECURE DIGITAL VOICE AND DATA

The Envoy X2 is a full systems capable HF radio covering the full spectrum of secure voice and data communications, and includes the ability for configuration with FED/MIL-STD ALE, STANAG 4538 3G ALE, MIL-STD-188-110A/B Data, AES-256 voice and data encryption, and CES-128 voice encryption. With 125 W power output, exceptional receiver performance, and our industry leading second generation Digital Voice, you can be assured of clear communications.

The FLYK-125 includes access to the general purpose accessory interface of the embedded Envoy radio. This can be utilised for connection of external crypto devices, tablets, or laptops running data or radio programming applications or other external accessories.

CAPABILITY EXPANSION

The FLYK-125 can be configured with an optional ruggedised Wi-Fi switch for remote wireless connection and operation via smartphone, tablet, or laptops using the Codan Xtend smartphone app or Virtual Control Point (VCP) application. A GPS receiver accessory and optional GPS calling options can also be selected to provide location and tracking capabilities.

Additionally, the FLYK-125 can be interfaced to the Codan RIOS interoperability product suite, providing a powerfully scalable interoperable communications solution.

CONFIGURATION TABLE

ORDER CODE	ENVOY X2 TRANSCIVER	2240 SMARTLINK
FLYK-125-S-BLK-XX	Yes	Yes
FLYK-125-SL-BLK-XX	Yes	Yes
Note: XX reflects the country code for selection of AC mains cable. AU = Australia, EU = Europe, US = United States, UK = United Kingdom		

AVAILABLE ACCESSORIES

- GPS Antenna (GPS and GLONASS)
- XTEND Smartphone App for Envoy radio calling and messaging (requires 2240 Smartlink)
- Tactical and permanent tuned and broadband antenna solutions
- Solar panel charger with in-line regulator (Optional)
- Transceiver programming kit
- Data applications
- Secure key programming applications

HF RADIO SPECIFICATIONS

Channels and scanning	Up to 1000 simplex or semi-duplex. Up to 20 scan groups. Simultaneous scanning for Selcall (ALE / CCIR) and voice. Dwell time 125 ms to 9.9s, adjustable.
Contacts list	Up to 500 entries
Compliance	CE, FCC, IC, AS / NZS 4770:2000, AS/NZS4355:2006
Frequency range	Transmit: 1.6 to 30 MHz Receive: 250 kHz to 30 MHz Frequency Stability: ± 0.3 ppm from -30°C to $+60^{\circ}\text{C}$
Modes	Single Sideband USB, LSB (J3E), AM (H3E), CW (J2A), AFSK (J2B), FSK (F1B), Software Defined, Independent Sideband ISB (B71, B8W, & B9W)
RF output power	125 W PEP ± 1 dB (two-tone or voice), user-programmable
Interfaces	USB programming port via 2220 Envoy radio Handset
Language support	Multiple language user interface and documentation

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

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GENERAL SPECIFICATIONS

Interfaces	Dual USB-A charge port Serial RS232 (6-pin Molex, supports GPS Receiver or transceiver control/data) Auxiliary GPIO (15-pin D, audio in/out, PTT, RS232) External DC input (2 pin Anderson) Solar panel Input (2-pin) RF input output (50 Ω N-Type) Antenna control port (Socket, 6way MIL-C-26482) AC mains input (IEC-C14 fused panel mount plug)
Controls and indicators	DC isolation switch Battery charge voltage digital readout USB charge port active LED
Duty cycle	100% Voice / Data
RF output Impedance	50 Ω
GPS	Embedded receiver/antenna (GPS and GLONASS)
AC operating range	100 to 240 V AC $\pm$ 10% (50 / 60 Hz)
External DC input	11-15 V DC
Protection	AC surge protection / over-voltage / under-voltage / over-temperature DC short circuit – 30A fuse, user replaceable, automotive style
Temperature range	-30°C to +60°C; 95% RH maximum, non-condensing
Back up battery	12V / 8Ah sealed Gelcell
Battery life	Up to 3 hours – subject to operational specifics
Dimensions	55.9 W x 35.1 H x 22.9 D cm (22.0 x 13.8 x 9.0 in)
Weight	19.8 kg (44 lb)
Sealing	O-Ring Seal, splash proof with lid closed and latched

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