ENCRYPTOR
3590 AES-256 DV

CODAN
COMMUNICATIONS

The 3590 AES-256 DV Encryptor provides a high grade 256-bit AES encryption with a MELPe digital vocoder supporting 1200/2400 bps data rates. The unit's compact size supports multiple deployment scenarios from manpack to mobile to base platforms.

BRIDGING THE GAP

The deployment of the 3590 AES-256 DV Encryptor enables commanders to bridge the interoperability gap between multiple vendor fielded radio networks. Utilising the same encryption module as the 2110 Series and NGT family of Codan transceivers, the 3590 ensures flexibility in deployment with secure interoperability.

EASE OF USE

The 3590 features a simple, intuitive 6-button interface for control of volume, encryption key and Secure/Clear Status. Key programming is achieved using Codan's standard KMS (Key Management Software) or KFS (Key Fill Software), as used with Codan's transceivers

KEY FEATURES

- AES-256 Digital Encryptor
- Stores up to 256 keys
- STANAG 4591 MELPe Vocoder
- 1200 / 2400 bps
- Auto-bauding
- HF / VHF / UHF support
- Compatible with 2110 Series and NGT family of transceivers
- Multiple platforms supported including intercom systems
- Remote controllable
- Auto-bypass with power loss
- 10 to 36 V operation
- Flange-mountable option
- MIL-STD-810G Environmental
- 3 year Warranty

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OPERATIONAL

Off (on loss of power)	Switches to bypass mode, transceiver volume control – handset interface only
Clear	**Bypass mode:** Volume control via transceiver **Controlled mode:** Volume control via 3590 front panel; Selectable Mute
Secure (Encrypted)	Volume control via 3590 front panel; Selectable Mute, Key Index, Vocoder Rate
Security	Settings are administrator password protected Selected key can be locked, Secure/Clear state can be locked All keys can be zeroised via front pane
Remote control	All functions controllable utilising RS232 serial commands
Display	White back-lit, On/Off/Auto backlight modes
Programming	PC utilising KMS (Key Management Software) or KFS (Key Fill Software)

GENERAL

Audio interface	**Low level:** Input 1 to 200 mV P-P, unbalanced; Output 0 to 5 V P-P, unbalanced **Line level (600 Ω):** Input 10 mV to 2 V P-P, balanced; Output 0 to 5 V P-P, balanced
Transceiver interface	Input 10 mV to 30 V P-P balanced, Output 10 mV to 5 V P-P balanced
Supply voltage	10 to 36 V DC (12/28 V DC nominal), reverse polarity protected
Supply current	<15 mA @ 13.8 V DC Clear mode, backlight off 80 mA @ 13.8 V DC typical, Secure mode (350 mA max)
Temperature	-30 to +60°C
Environmental	Designed to MIL-STD-810G for Immersion (1 m), Shock, Vibration, Blowing Dust, Salt Fog, Humidity and Drop

MECHANICAL

Handset interface	6-pin (Amphenol part no: 164-183-6-P), compatible with 5-pin U-229 style plugs
Computer interface	14-pin bayonet (Amphenol part no: 62IN-12E-12-14S-219-624)
Remote control interface	19-pin bayonet (Amphenol part no: 62IN-12E-14-19S-219-624)
Power supply	2-pin bayonet (Amphenol part no: 61IN-12E-8-2S-624)
Dimensions	**Non-flanged version:** 174 mm W × 81 mm D × 40 mm H **Flanged version:** 174 mm W × 99 mm D × 40 mm H
Weight	0.6 kg
Colour	Black

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