



communications

Communication Systems-East

SDVT Secure Digital Voice Terminal

The SDVT provides secure voice and data communications capability for tactical applications in a small, rugged package.

PRODUCT DESCRIPTION

L-3 Communication's Secure Digital Voice Terminal (SDVT) provides end-to-end secure digital voice and data communications for tactical switching networks. Used in the Improved Mobile Subscriber Equipment (IMSE) system, the SDVT is a four-wire secure/nonsecure telephone that transmits and receives digital voice and loop signaling information interfacing both secure and non-secure terminals (DNVT), facsimile, telegraph and data equipment. The SDVT uses Continuous Variable Slope Delta (CVSD) modulation to digitize the voice information.

The SDVT interfaces PCs and data devices supporting asynchronous communications up to 9.6 Kbits/sec via the RS-232C interface. The data port also supports connectivity to X.25 data devices for packet switch network dial-up access. The SDVT's unique design incorporates many commonly used features in a user-friendly handset that includes an illuminated keypad and liquid crystal display.

APPLICATIONS

Secure Communications

- Voice
- Data
- FAX
- Key Distribution

Tactical Systems



KEY FEATURES

- Embedded Encryption Module
- Secure/Non-secure Voice and Data Modes
- Four Wire Loop Interface: 16 or 32 Kbits/sec
- Synchronous Data Rates: 16 and 32 Kbits/sec
- Asynchronous Data Rates: 1.2, 2.4, 4.8 and 9.6 Kbits/sec
- Forward Error Correction (FEC) for Packet Network rates of 8 and 16 Kbits/sec
- Supports Hayes Modem Commands
- Auto-Dial and Auto-Answer
- Small size: 11.3" x 8.3" x 4.1" (28.7 cm x 21.0 cm x 10.4 cm)
- Lightweight: 5 lbs (2.3 kg)

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SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Size: 11.32"L x 8.28"W x 4.08"H
(28.7cmL x 21.0cmW x 10.4cmH)

Weight: 5.0 lbs (2.3 kg) including handset

Chassis: Polycarbonate/Lexan with shielding

SMART HANDSET FEATURES

- Lighted Display and Keypad
- Number Store/Recall
- Speed Dialing
- Mode Configuration
- Audio and Ring Volume Control
- LCD Panel Display

PERFORMANCE CHARACTERISTICS

Electrical

Loop Interface: Four-wire conditioned diphase

Voice Interface: Handset with Integral Keypad

Data Interface: RS-232C

Fill Interface: RS-232C

Power Interface: 24 to 56 VDC (Phantom Loop) or
22 to 28 VDC (Common battery)

Environmental

Temperature: -20°C to +50°C operating
-40°C to +71°C storage/transit

Humidity: 95% up to +40°C

Altitude: 12,192 meters

Shock/Drop: 6 drops of 48 in (122 cm)

Blowing Rain: 102 mm/hr at 64.4 km/hr wind
velocities

Vibration: 2.0 g²/Hz at 2-10 Hz, 0.7 g²/Hz
at 11-200 Hz

Reliability

MTBF: >10,000 hours@25°C

For Additional Information Contact:

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