

IMPROVING ALLIED INTEROPERABILITY.

The Leonardo DRS DTS-K CP-2635(C)/A – Link 11 Data Terminal Set with Embedded Crypto (also known as DTS-K) is a compact solution integrating data link modem and cryptographic equipment in one chassis for airborne (fixed or rotary wing) or platforms with size and weight constraints. The DTS-K is based on a VME bus-based chassis and circuit boards with proprietary software, which enables the unit to perform as a Link 11 data terminal set with the KG-11 cryptographic functions of a Link 11 network NCS or Picket. The DTS-K is certified by the National Security Agency (NSA).

The DTS-K has three primary functions in a Tactical Data Information Link (TADIL) network. First, the DTS-K interfaces to the tactical computer for network message traffic to pass from one net station to another. Second, the DTS-K performs encryption and decryption of the message traffic to NSA Communication Security (COMSEC) standards. Finally, the DTS-K phase modulates and demodulates the encrypted data to audio tones for transmission and reception by either HF or UHF radios.

The DTS-K generates both Convention Link 11 Waveform (CLEW), and the Single-tone Link 11 Waveform (SLEW) for improved performance in the presence of multipath commonly found in the HF environment.

Designed for demanding airborne environments, the DTS-K has a remote control (e.g. from the cockpit) interface that enables remote operation of the unit via a control head or computer over an RS-232 interface.

Future versions of the DTS-K will provide the ability to perform MODEM and cryptographic functions for both Link 11 and Link 22 network operation.





LINK 11 DATA TERMINAL SET WITH EMBEDDED CRYPTO

HIGHLIGHTS

- Certified by NSA
- Lower costs than the equivalent Link 11 configuration
- Half the size and up to 70 pounds lighter than the equivalent Link 11 configuration with separate crypto
- · Double the reliability

- Embedded "red-black" separation
- Built-in-test (3 levels)
- Optional Link Monitoring System (LMS)
- ARINC mounting tray
- Meets MIL-STD-188-203-1A

SPECIFICATIONS

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PHYSICAL FEATURES		INTERFACE PARAMETI	ERS
Dimensions (H x W x D)	7.62 x 4.88 x 12.62 inches 19.55 x 12.39 x 32.05 cm	Audio interface with radio	transformer co
Weight	20 lbs. (9.07 kg)	Transmit level/impedance -22 to +3 dBm	
ELECTRICAL FEATUR	ES	Serial (ATDS)	Transformer co
Power	24 to 32 VDC, 18 watts max.	computer interface	
ENVIRONMENTAL FEATURES		Remote control interface	9600 asynchron
Operating Temperature	-4°F to +131°F -20°C to +55°C	Multi-tone characteristics	Differently coh
Non-Operating Temperature	-40°F to +185°F -40°C to +85°C	Single-tone characteristics	8-PSK IAW SPA
Vibration	MIL-HDBK-5400 paragraphs	RELIABILITY / MAINTAINABILITY	
	4.6.2.5.1 and 4.6.2.5.1.2	Mean Time Between	10,000 hours p
Humidity	95% with condensation	Failure (MTBF)	
Shock	MIL-HDBK-5400 paragraphs 4.6.2.6.1 and 4.6.2.6.2	Mean Time to Repair (MTTR)	(org level) 5 mi
Altitude	35,000 feet (10,668 meters)	-	
EMI	MIL-STD-461E for Navy Aircraft		
TEMPEST	NSTISSAM TEMPEST and CNSS Advisory Memorandum TEMPEST 01-02		

INTERFACE PARAMETE	ERS			
Audio interface with radio transformer coupled, independent USB and LSB				
Transmit level/impedance -22 to +3 dBm composite, 600 Ohms balanced				
Serial (ATDS) computer interface	Transformer coupled			
Remote control interface	9600 asynchronous serial			
Multi-tone characteristics	Differently coherent DPSK			
Single-tone characteristics	8-PSK IAW SPAWAR-S-850			
RELIABILITY / MAINTAINABILITY				
Mean Time Between Failure (MTBF)	10,000 hours per IAW MIL-HDBK-217F			
Mean Time to Repair (MTTR)	(org level) 5 minutes			

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