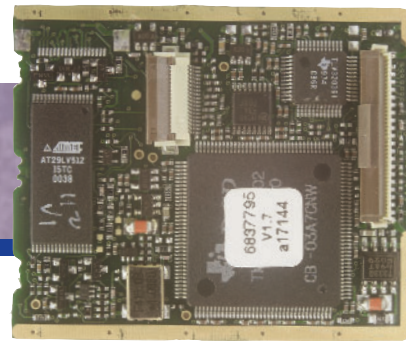


DES SECURITY

SC20-DES-LP



Transcrypt's SC20-DES-LP provides protection against the most determined and technically capable listeners. By scrambling voice audio using a DES algorithm, the SC20-DES-LP transmits a scrambled analog signal that is indecipherable by virtually all listeners. Although the scrambled audio produced by the module is unintelligible, the unique digital coding provides recovered voice audio that is far superior to the typical digital encryption.

The SC20-DES-LP module offers complete compatibility with FlashCall™, Transcrypt's own signaling protocol. This feature furnishes the full use of Over-The-Air-Reprogramming (OTAR) and Stun. Lost radios can be disabled remotely, thus eliminating any advantage an unwanted listener gains from acquiring a secured radio.

The SC20-DES-LP can be installed into many of the world's most popular two-way radios. The module is added to the internal radio structure and leaves the actual size of the radio unaltered. Unlike other typical digital methods of voice security, Transcrypt's SC20-DES-LP has a limited effect on the radio's range and system performance.

Transcrypt modules have proven to be the standard in the analog scrambling industry. Currently, Transcrypt modules are securing government,

public safety, and commercial voice communications in more than 10,000 systems in over 120 countries worldwide.

Voice Quality

- While operating in the secure mode, the module provides clearer and more natural sounding audio than other digital security solutions.

DES (Data Encryption Standard)

- Offers one of the highest levels of privacy by encrypting digitally coded audio.

Normal Voice Band Operation

- Allows for the unaffected use of the system's sub-audible signaling options, including transparent operation through repeaters.

Adaptability

- Offers the ability to install digital voice security into many of the world's most popular two-way radios.

Radio Disable Function

- Provides the ability to disable radios that have been lost or stolen. A disabled radio will be unable to receive or transmit any messages, thus eliminating any advantage an undesired listener would gain from stealing a radio.

Automatic Receive Operation

- Allows for the automatic detection of both clear and coded incoming signals. This feature prevents the inconvenience of manually switching a radio between clear and coded communication modes.

Continuous Synchronization

- Permits the user to join secure communication after coding has been initiated. In addition, a user can rejoin secured communication when the radio signal is interrupted.

Security Level Maximum

DES SECURITY

SC20-DES-LP

Voice Privacy with Integrity... Worldwide

MODEL NUMBER		SC20-DES-LP
GENERAL SPECIFICATIONS*		
Size (L x W x D)	1.3" x 0.9" x 0.2" 33mm x 23mm x 5mm	
Operating Temperature	-22° to +140° F (-30° to +60° C)	
Receive Coded/Clear	50 to 2500 mV P-P	
Transmit Coded/Clear	50 to 2500 mV P-P	
Supply Voltage	3.3 to 16 Vdc, Regulated to 3.3 Vdc	
Current Drain	25 mA nominal	

SECURITY SPECIFICATIONS	
Encryption Method	DES
Number of Codes	>72 quadrillion
Transmit Coded/Clear	Manual Select
Receive Coded/Clear	Automatic

AVAILABLE DES BOARDS	
Transcrypt Model Number	Radio Model
SC20-DES-LP	Most Radios
MO80-DES-W/SPC/SP5	Motorola Pro Series (Portable)
MO94-DES-M1	Motorola MTX Series
MO94-DES-M2	Motorola MT 2000/MTS/MCS
MO94-DES-M3	Motorola GP 900 (99 channel)
MO95-DES	Motorola HT 1000 (w/socket)
<i>Call for new releases</i>	

RADIO SYSTEM MANAGEMENT	
ANI	4 Digit, 0000 to EFFF
Emergency	Retry Until Acknowledged
Programming Features (Modem Required)	TR30-3060/3061
Keyload Software	TR99-DES
OTAR (Over-The-Air Reprogramming)	Yes
Enable/Disable Radio	Yes
Change Encrypt Codes	Yes
Export	Requires License

INSTALLATION FEATURES/OPTIONS	
Coded/Clear Switch Options	One/Two Button Momentary or Toggle Switch
Coded/Clear Indication	Connection available for LED Indicator
Programming Method	Over-The-Air Reprogramming (OTAR)
Signaling Method	FlashCall™
Emergency	Connection available for emergency function
<i>Call for additional features</i>	

*All specifications are typical and subject to normal manufacturing tolerances.



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