MIDIAN ELECTRONICS

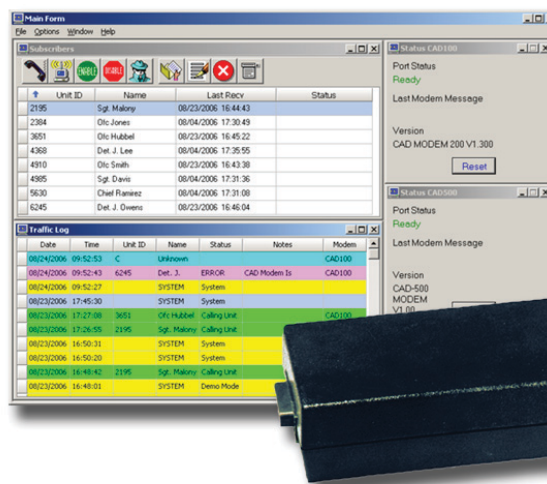# Frequency Domain Secure Voice Scrambler Module

Midian's VS-1200™ module is a tactical level, high security voice scrambler that protects voice communication using digital signal processing (DSP) technology. The analog audio is digitized and a proprietary method of scrambling that employs the fast Fourier transform (FFT) is applied. The scrambled data that results is converted back to analog for transmission over the radio channel. This provides excellent recovered audio quality and speaker recognition. The VS-1200 can be used over HF/VHF/UHF radios employing AM/FM/SSB modulation. Additionally the VS-1200 incorporates push to talk (PTT) ANI (automatic number identification) and Emergency ANI with lone worker/man-down capability over AM/FM and high stability SSB.

VS-1200™ Voice Scrambler Features

- Wire-in module for installation inside most military man-pack radios

- Billions of possible programmable Security Keys

- 3 user selectable Symmetric Security Keys

- The VS-1200 offers 4 user-programmable levels of security.
  - Very High Tactical - 64 bins
  - High Tactical - 32 bins
  - Medium Tactical - 16 bins
  - Low Tactical - 8 bins

- Auto detection of scramble or clear mode

- Using the Frequency Domain (FFT) method of scrambling ensures high security and excellent recovered audio quality and speaker recognition.

- No synchronization transmitted over the channel

- Will work through most voting systems

- Compatible with Midian's VS-1200-SM1-MIL/SM1G-MIL secure voice speaker microphone with GPS or GLONASS and Datron World Communications HH7700 VS-1200 plug and play module

CAD Modem/Software with command post dispatch display

VS-1200 Wire-in Module

CAD display Features

Multi-Format ANI: The VS-1200 can transmit the following ANI formats to the CAD modem dispatch display at the command post
- Midian's GPS format CAD-800
- Motorola's MDC-1200 - CAD-500
- Kenwood's FleetSync - CAD-600
- DTMF (Touch-Tone) - CAD-100
- 5-Tone (all formats) - CAD-200

VS-1200 Man-Down/Lone Worker feature:
- Emergency ID activated by the man-down/lone worker sensor or using a button on the radio
- Man Down locator tone emitted from Manpack radios handset ear piece

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