

TactiLink

TAC-V Tactical Video Receiver and Transmitter – EAGLE - DIGITAL/ANALOG (DA)



Airborne System



Ground System



The SNC TAC-V TX and REC units make up a compact, lightweight, tactical video downlink system that allows the user to transmit, receive, record, display and play back real-time full motion video imagery and moving map metadata. The REC unit is integrated to provide reach-back "streaming" data using IP over communications links (built-in wireless cell broadband transceiver / high bandwidth BGAN SATCOM terminal) to other locations over the Internet.

Typical Applications:

- **Emergency Response:** A natural disaster ER Team conducts a real-time aerial survey of bridges, roads and structures immediately after an earthquake to assess damage and direct relief operations from a remote command center.
- **Homeland Security:** National Guard Security and Support Battalions supporting operations patrolling along the United States border provides full motion video to ground reaction elements for immediate intercept and streaming the video to distant Command Posts over the internet.

**Tactical Communications is Developing the Future for those at the
"Tip of the Spear"**

snc SIERRA NEVADA CORPORATION
Intelligence, Surveillance, and Reconnaissance

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Specifications

RF Characteristics

- Frequency: C-Band 4.4-5.0 Ghz, L-Band 1.7-2.0 Ghz
- Frequency Selection: Tunable in 1MHz steps
- Minimum Frequency Stability: +/- .003
- Output Power: 10 watts
- Output Impedance: 50 Ohms VSWR: 1.5 to 1
- Open/Short Protection: (internal isolator)
- Rcvr. Sensitivity: -85 dBm input for +12dB Video
- SNR Input Impedance: 50 ohms
- Dynamic Range: 80 dB minimum
- Image/Spurious Rejection: 60 dB minimum
- L.O. Radiation: -25 dBm maximum
- Meter Output: -85 to -20 dBm, 0 to +5 VDC
- Amplitude Response: Adjustable 1.5 v p-p for +/- 4 MHz
- Frequency Response: 6 Hz to 5 MHz +/- 1.5 dB per CCIR 405 525 line de-emphasis curve
- Linearity: +/-2% of best straight line
- Distortion: 1% maximum

Modulation Characteristics

- Video Encoding
- SDI, Composite or S-Video or Component Input:
- Standards: NTSC or PAL
- Compression Standard: MPEG-2
- Chrominance Profile: 4:2:0
- Line Standard: 525 and 625
- Horizontal Resolution: 704 pixels
- Vertical Resolution: 576 (625 line), and 480 (525 line)
- Video Bit rates: 3.73 Mbit/S to 15 Mbit/s
- System Latency end to end delay: 200 ms
- Connector: p/o DB-44F

For further information contact:
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TAC-V-R/T



Environmental Specifications

- Temperature: Operating -20 to +71 deg C
- Vibration: Sine: 20g 5-2000Hz .4DA max
- Shock: 100g 11msec 3 axis 1/2 sine
- Acceleration: 100g 3 axis
- Altitude: Unlimited
- Humidity: Up to 95%

Power Requirements

- Input Voltage: 28 VDC @ 4.2Amps Max with Reverse Polarity Protection

Options

- Analog and/or Digital

Accessories

- HiGain Receiver Antenna
- Omni Directional Antenna
- Handheld Receiver
- Antenna Actuator



Complies with AS 9100