Enabling broadband satcom in flight, the ViaSat C-17 Fixed Installation Satellite Antenna (FISA) terminal is a complete, self-contained airborne satcom system delivering high-speed IP communications-on-the-move. With ViaSat’s FISA terminal and worldwide global network and broadband service, C-17 operators and VIP passengers can experience live, full-motion video over the horizon, make secure phone calls, conduct video conferences, access classified and public networks, and perform other mission-critical communications while in flight.

For simple installation and rapid integration, ViaSat features a roll-on/roll-off ruggedized transit case for the baseband electronic equipment, including modem, encryption devices, and routers. This flexible in-vehicle equipment transit case also supports ViaSat’s C-130 Hatch-Mounted Satellite Antenna system, providing each fleet with common deployable hardware for broadband mobile satcom.

**BROADBAND COMMS-ON-THE-MOVE FOR ANY C-17 MISSION**

- Enroute Video/Voice Conferencing
- “TOC-in-the-Sky” Command & Control
- Assured Network Access

**VIASAT C-17 MOBILE SATCOM AT-A-GLANCE**

**Secure High-Speed Communications**

- Protected IP traffic with optional HAIPE® Type 1 encryption

**FCC/ITU-Compliant**

- Mitigates adjacent satellite interference with spread spectrum waveforms
- Optimized capacity with closed loop power control and advanced network management

**Flexible Design for Aircraft Requirements**

- Flexible in-vehicle transit case for either C-130 or C-17 operations
- Roll-on/roll-off capability
- Accurate satellite tracking in all mission phases with a GPS enabled Inertial Reference Unit (IRU)
- Operates from aircraft or ground power

**Global Network & Services**

- Worldwide broadband Ku satcom
- Optimized for mobile applications
- High-capacity regional and enroute coverage
- Annual service plans at fixed monthly costs
- Technical support with tiered service levels
**SPECIFICATIONS**

### OPERATING FREQUENCY
- **Transmit**: 14.0 to 14.5 GHz
- **Receive**: 10.7 to 12.75 GHz

### MODULATION AND FEC
- **Forward/Return Link**: Network Optimized—Variable Coding, Spreading, and Modulation (VCSM)
- **Frequency Reuse**: Paired Carrier Multiple Access (PCMA)

### TRANSMISSION RATES
- **Forward/Return Link**: 0.1 to 10 Mbps

### RF/TRACKING PERFORMANCE
- **EIRP**: 44.7 dBW minimum (40 W HPT)
- **G/T at 36,000 Feet**: 11.6 dB/K minimum
- **Polarization**: Linear Orthogonal TX/RX
- **Coverage**
  - **Azimuth**: 360°
  - **Elevation**: +90° to 0°
- **Roll, Pitch, Yaw Rates of Change**: 15°/s
- **Roll, Pitch, Yaw Acceleration**: 15°/s²

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### OPTIONS
- **Encryption**: Type 1 HAIPE (KG-250); AES-256 FIPS 140-2 optional

### POWER
- **Input**
  - **FISA Antenna System**: <200 W, 115 VAC, 400 Hz
  - **In-Vehicle Equipment**: 120 VAC, 47 to 450 Hz, 15A Max

### ENVIRONMENTAL AND PHYSICAL
- **Operating Temp**
  - **FISA Antenna System**: Meets MIL-STD 810C
  - **In-Vehicle Equipment**: 0° to 40° C
- **Weight**
  - **FISA Antenna System**: 130 lb
  - **Antenna**: 94 lb
  - **ACU**: 11 lb
  - **IRU**: 8.5 lb
  - **40 W HPT**: 25 lb
  - **In-Vehicle Equipment**: 199 lb
- **Size (WxHxD)**
  - **FISA Antenna System**: Request drawings
  - **In-Vehicle Equipment**: 23 x 20 x 36 in.