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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**I/O PORTS**
- **Data**: 10/100BASE-T Ethernet
- **Console**: RS-232 and Ethernet (via telnet)
- **Navigation**: ARINC 429

**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, 15 A Maximum

**ENVIRONMENTAL AND PHYSICAL**
- **Operating Temperature**:
  - **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 (W x H x D)**:
  - **FISA Antenna System**: Request drawings
  - **In-Vehicle Equipment**: 23 x 20 x 36 in.

*Variable rate based on satellite performance. 455335-171024-017

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**CONTACT**

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