

- » Real-Time Enroute Command, Control, Communications (C3)
- » Operationally Deployed
- » Global Network and Services including Assured Access Plans



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

Viasat C-17 Fixed Installation Satellite Antenna Terminal (FISA)

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*
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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°/s ²

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
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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

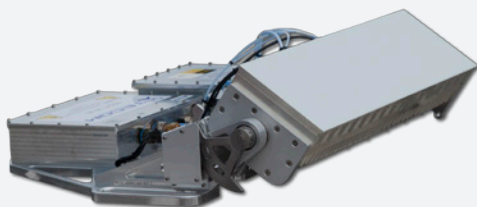
Operating Temperature	
» FISA Antenna System	Meets MIL-STD 810C
» In-Vehicle Equipment	0° to 40° C

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.



FISA ASSEMBLY



ROLL-ON, ROLL-OFF IN-VEHICLE EQUIPMENT

CONTACT

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