

Narda Satellite Networks

AN/USC-60A

Flyaway Tri-Band Satellite Terminal (FTSAT)

The AN/USC-60A is a Commercial-Off-The-Shelf (COTS) terminal supporting theater-deployed communications and special user requirements. It is a small, lightweight tri-band satellite communications terminal. The FTSAT is an affordable field proven satellite communications facility, certified for DSCS and qualified for INTELSAT operation.

The FTSAT incorporates L-3 Narda Satellite Networks' unique frequency conversion architecture and antenna design that meets stringent requirements for Defense Satellite Communications System (DSCS) Earth Terminal certification as well as commercial satellite requirements.

The AN/USC-60A (FTSAT) is an easily transported satellite communications terminal that is integrated, contained, and transported in rugged transit cases. All transit case units are commercial airline-checkable for ease of deployment. The terminal is also transportable on pallets by military aircraft. Terminal setup and satellite acquisition is accomplished in less than 50 minutes.

The terminal provides worldwide satellite communications over DSCS II and III, North Atlantic Treaty Organization (NATO) III and IV, INTELSAT, European Telecommunications Satellite Organizations (EUTELSAT), Pan American Satellite Organization (PANAMSAT), and domestic and regional satellites (DOMSATS). The modular architecture of the AN/USC-60A terminals easily accommodates capabilities expansions such as EOIP, digital video, digital voice/fax transmission, secure communication network control, RFMOW (Replacement Frequency Modulation Order Wire) and ETSSP (Enhanced Tactical Satellite Signal Processor).

Key Benefits

- Highest throughput
- DSCS certified
- INTELSAT qualified
- Interoperable with JMICS, ATM switching and EOIP Network
- Superior wind stability, pedestal and antenna
- UNIFOLD™ lightweight tripod
- Easily set up and operated
- Integrated logistics support
- 2.4 meter antenna system
- Modular architecture
- Highly transportable

**WGS Certified Ka-Band
Upgrade Kit Available!**



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PERFORMANCE SPECIFICATIONS

PARAMETER	C-BAND	X-BAND	KU-BAND	UNITS
Receive Frequencies	3.625 to 4.200	7.25 to 7.75	10.95 to 12.75	GHz
Transmit Frequencies	5.850 to 6.425	7.90 to 8.40	14.0 to 14.50	GHz

2.4 METER ANTENNA SYSTEM AN/USC-60A (TYPICAL)

Transmit Gain	42.2	45.1	49.3	dBi
Receive Gain	38.2	44.2	47.3	dBi
G/T	18.8	21.7	26.0	dB/K
EIRP (Linear)	61.5	64.8	66.5	dBW
EIRP (Saturated)	67.9	70.8	73.8	dBW

Modulation/Throughput	BPSK, QPSK, OQPSK, 8 PSK @ 9.6 Mbps to 9.4 Mbps
Antenna Tracking	Standard -- manual
Option	Automatic/motorized for 2.4m antenna
Terminal Packaging	2.4 configuration -- 12 transit cases (total max weight is 1,325 lbs)
Environment Wind Loading	Operational (steady-state): 25 MPH; 40MPH (anchored); survival (anchored); 45MPH steady-state; 60 MPH gusting
Temperature	-20°C to +50°C (operating); -40°C to +70°C (storage)
Satellites	WGS, INTEL SAT, DSCS, NATO, PANMASAT, EU EL SAT, DOMSATS, etc.
Prime Power	110/240 VAC +/- 10%, 47 to 63 Hz
Setup Time	45 Minutes (typical)

FEATURES:

- Lightweight 2.4 meter segmented antenna
- DSCS certified
- INTEL SAT qualified
- Airline transportable
- Laptop computer
- Control and monitoring subsystem
- Compact and lightweight
- Advanced RF architecture
- UNIFOLD™ (patented) mechanical design
- Hub independent setup
- Built-in self test capability
- Signal acquisition and operational within minutes
- GPS receiver
- Flux gate compass
- Tri-band test translator
- Fiber optic IFL
- IF spectrum analyzer
- Environmentally protected equipment operation
- Antenna tie-down provisions for high wind operation
- Interactive training CD
- Automatic tracking subsystem for the 2.4 meter antenna (patented) with interactive training CD

OPTIONS:

- Single/dual band configuration
- Other antenna sizes and various HPA power levels
- Ka-band upgrade kit (WGS Certified)
- Orderwire
- ETSSP
- IP upgrade kit: Interoperable with iDirect, DVB and Linkway
- 52 Mbps data rate modem



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communications
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ISO 9001:2008 and AS9100 Registered

L-3. Headquarters in New York City, L-3 Communications is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.

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