

AN/TSC-168 TDC Quad-Band Dual Hub SATCOM Terminal



L3 Narda Satellite Networks introduces the Transit Case AN/TSC-168, TDC Quad-Band Dual Hub SATCOM terminal (QHSAT) featuring a High Wind Antenna (HWA) subsystems, designed to provide critical link stability.

The terminal operates in a combined dual hub configuration or as two independent hubs, either co-located or remotely, controlling up to six spokes each. The AN/TSC-168 Antenna Control Unit (ACU) is compatible with the LHGXA, QRSA and the AN/USC-60A subsystems. The AN/TSC-168 meets the DSCS Certification and Intelsat Qualification requirements for high wind (60 MPH) tracking. The set-up time and take down time is less than 60 minutes each. The terminal is transported on one 463L Pallet.

The satellite modems are capable of data rates ranging from 9.6 kbps to 20 Mbps (50 Mbps optional) and are OM-73 compatible. The RF electronics and Baseband equipment can be separated up to 500 ft. via fiber optic link (2km with optional cable). The terminal uses an L-band IF to eliminate the need for additional converters for multiple transponder downlinks.

FEATURE OVERVIEW

- Dual Hub Transit Case Configuration (other configurations available)
- Transportable on one 463L Pallet
- Remote CMA up to 1000 ft. 2 km optional
- Easy Set-up and Operation



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- L-Band IF Topology
- Integrated Logistics Support
- IP/TDMA Capability Optional
- Superior Wind Stability (60 MPH Operating)
- Data Rate: 20 Mbps (50 Mbps available)

PERFORMANCE SPECIFICATIONS

Dual Hub

with 2.4 Meter HWA

Parameter	C-Band	X-Band**	Ku-Band	Ka-Band	Units
Transmit Frequencies	5.850 to 6.650*	7.90 to 8.40	13.75 to 14.50*	30.0-31.0	GHz
Receive Frequencies	3.400 to 4.200	7.25 to 7.75	10.95 to 12.75	20.2-21.2	GHz
G/T	18.5	22.0	25.0	27.0	dB/°K
EIRP (Linear)	61.5	67.0	66.5	68.0	dBW

Temperature -30°C to + 55°C
-40°C to + 70°C (Storage)

* Extended frequency

**X-TAR frequency reuse available

Wind Operating 60 MPH Gusting
Non-Operating 90 MPH Gusting

FEATURES

- ACU-Interface to LHGXA, QRSA and FTSAT Antenna
- Meets DSCS Certification Requirements
- INTELSAT approved
- High Wind 2.4M Segmented Antenna
- Remote Control and Monitoring Subsystem
- Built in Self Test Capability
- GMF Compatible
- Environmentally Protected Equipment Operation
- ETSSP Operation up to 20 Mbps with anticipated growth to 50 Mbps when approved
- Set-Up / Tear Down Time: 60 minutes
- Auto Scan / Auto Acquisition
- Extended Frequency Bands
- Quad-Band Operation
- External Timing 5/10 MHz
- RFMOW
- X-Band Reuse (option)
- Airline Transportable
- Flexible Architecture
- Turbo Product Code

We can assist in meeting specific SATCOM mission requirements

Note: Specifications subject to change without notice



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