

thinSat[®]300

Conformal VSAT Connectivity...Instant and on the Move!

thinkom's affordable, low-profile (11 cm), high data rate (up to 10 Mbps 2-way) highly efficient (no spreading required) and rugged vehicle roof-mounted Ku-Band Satellite-On-the-Move product provides continuous broad-band connectivity (voice, video and data) at highway speeds without antenna deployment delays...Anywhere.

The thinSat[®]300 automatically acquires and tracks the desired satellite using open-loop and closed-loop tracking algorithms and interfaces to the users modem installed in the vehicle. Networking equipment can be added to create a "standard" 88 cm x 36 cm parabolic-equivalent mobile "big pipe" WiFi access point in-vehicle or 100's of feet around the vehicle.

The thinSat[®]300 is ideal for all mobile applications including transportation, satellite news gathering, enterprise (petroleum, insurance), and federal, state, & local emergency response teams that need to stay in constant communications without interruption...Anywhere...and On-the-Move.

Mobile Broadband Communication...Anywhere

Each thinSat[®]300 unit includes:

- Transmit antenna
- Receive antenna
- Positioner
- Controller (with GPS)
- Power supplies
- LNB
- Block up converter (BUC/SSPA)
- Environmentally sealed enclosure
- Ka-Band Capable (Design Variant)
- Aeronautical Capable (DO-160 Variant)

thinkom

A Revolution in Antennas™



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thinSat[®] 300

Conformal VSAT Connectivity...Instant and on the Move!

General Information

Total Weight: 93 lbs. (42 Kg, Including BUC/SSPA)
Size: 59" x 39" x 4.3"
(150 cm x 100 cm x 11 cm)
Polarization: Dual Tracking Linear
Transmit Band: (13.75) 14.0-14.5 GHz
Receive Band: (10.95-11.70) 11.70-12.75 GHz
G/T (mid-band): 10-13 dB/K (8 dB/K at 20° Elev)
EIRP: 47-50 dBW (45 dBW at 20° Elev, 25 W BUC)
Interoperability: Equiv. to 88 cm x 36 cm Parabolic

Acquisition and Track

Initial Acquisition: 60 seconds (Cold-Start with GPS)
Re-acquisition after 3 minute blockage: 1 second
Track Speed/Agility: 100°/sec, 300°/sec²

Environmental

Operational Temperature: -30°C to +55°C
Storage Temperature: -30°C to +70°C

Mounting Specifications

Rack-Mount compatible: 36" to 44" (90 cm to 110 cm)

Voltage / Power

12 VDC (220 W Avg., 295 W Peak w/ 25 W BUC/SSPA)

Cabling

IF Interface: 75 Ohm N-type (Transmit & Receive)
Data Interface: Ethernet (RJ45)

Controller

Fully Integrated

BUC/SSPA (Internal)

8 W standard; also available 16, 25 and 40 W

Features and Benefits

Lowest Profile

- 40% to 65% Lower Profile than Competing OTM Products
- Lowest Cost...Lowest Drag...Lowest Visibility Installation

Lowest Operating Costs

- 3x to 10x Higher Spectral (MB/\$) Efficiency than Competing OTM Products
- Return Link Equivalent to 88 cm x 36 cm (35" x 14") "Pop-Up" Parabolic
- NO SPREADING REQUIRED!

Highest Data Rates

- 4x to 10x Higher Return Link Data Rates than Competing OTM Products
- 49 to 52 dBW EIRP with Internal 40 W BUC (56 to 59 dBW External)
- HD Back-Haul Capable!

Broadest World-wide Coverage and Availability

- 40% to 60% Larger Scan Volume than Competing OTM Products
- Full International (Ku-Band) Frequency Coverage
- All-Latitude Availability with Full Equatorial, High-Skew, and Near-Zenith Ops

Always-on...On-the-Move!

- Agile Proprietary Closed-Loop Tracker
- Instant-on...No Setup...No Takedown

Users and Applications

Government

- Disaster Recovery, ICE, FEMA, DHS Mobile Field Ops
- First Responders
- Instant-On...No Setup...No Takedown

First Responders

- In-Pursuit, In-Route, and On-Scene

Transportation

- Safety/Surveillance/Security, Trains, Public Transit

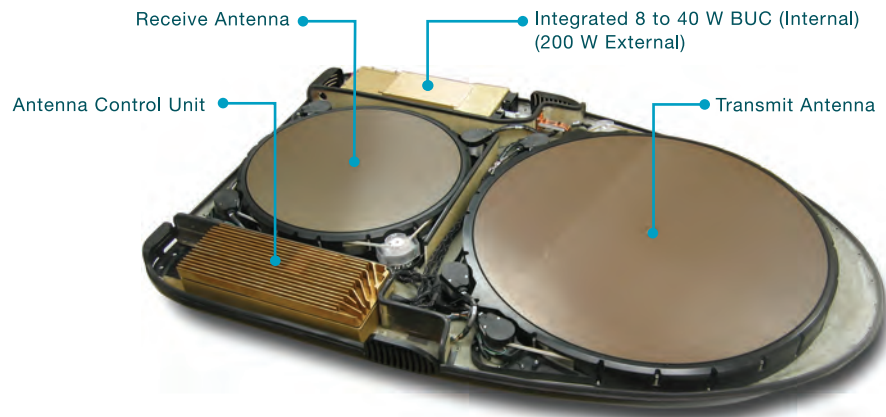
Enterprise/Commercial

- SNG, Oil & Gas, Insurance, Security, Utilities

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...Anywhere**

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