

thinSat[®]300

by thinkom

“Pop-up Dish” Connectivity... Conformal and on the Move!

thinKom's affordable, low-profile (11cm), 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” 88cm x 36cm 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, and 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)
- Environmentally sealed enclosure



thinKom
A Revolution in Antennas™

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General Information

Total Weight: 93 lbs. (42 Kg. including BUC/SSPA)
Size: 59" x 39" x 4.3" (150cm x 100cm x 11cm)
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, 25W BUC)
Interoperability: Equiv. to 88cm x 36cm 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" (90cm to 110cm)

Voltage / Power

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

Cabling

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

Controller

Fully Integrated

BUC/SSPA (Internal)

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

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 88cm x 36cm (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 40W 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

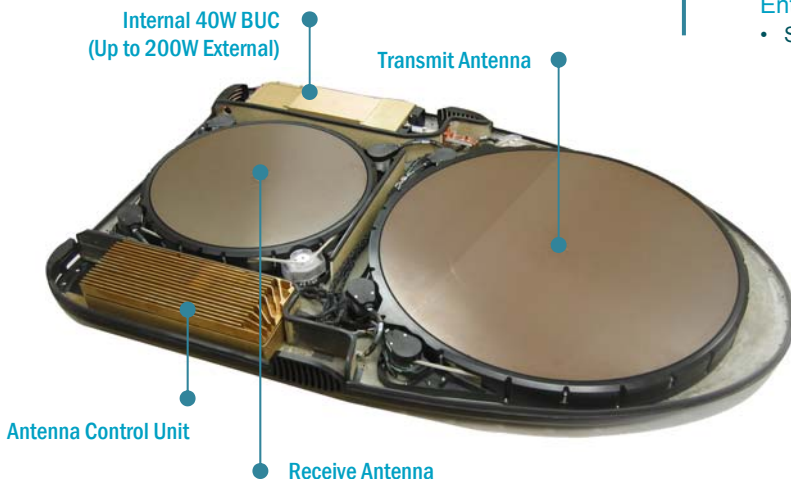
- Disaster Recovery, ICE, FEMA, DHS Mobile Field Ops
- First Responders
- In-Pursuit, In-Route, and On-Scene

Transportation

- Safety/Surveillance/Security, Trains, Public Transit

Enterprise/Commercial

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



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