

ThinPack® Ka100T

Ultra-Man-Portable SATCOM Terminal



ThinKom

Global Connectivity

Next Generation Ultra-Portable Manpack Terminal Provides Commercial and Government Users Broadband Ka-Band Connectivity

ThinKom's ultra-portable, antenna provides high throughput (up to 20 Mbps Downlink at 13 dB/K G/T and 16 Mbps Uplink at 49 dBW EIRP) and highly efficient use of transponder bandwidth (1-2 bits/Hz). The small form factor terminal can be carried in a ruck sack or can be stowed in an aircraft overhead bin and weighs less than 20.5 lbs. There is no assembly required and the antenna is fast and easy to align and stabilize. The broadband terminal supports worldwide commercial and government Ka-Band networks.

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General Information (Antenna)

Transmit Band: 28.1-31.0 GHz

Receive Band: 18.7-21.2 GHz

G/T: 13 dB/K (20.2 GHz)

EIRP: 46 dBW (30 GHz, 5W BUC) or

49 dBW (30 GHz, 12W BUC)

Transmit Power Spectral Density: 32 dBW/40 KHz

(per 47 CFR 25.138)

Geo-Plane Beamwidth (Tx): 1.7° Az x 2.2° El

Geo-Plane Patterns (Typ): First Sidelobe -27 dB

Polarization: Switchable Circular (Orthogonal-Pol)

Axial Ratio: < 2.0 dB typical

Tx/Rx Isolation: > 80 dB

Case Size: 20.75" x 14.5" x 9.75" (including Hard Case)

Weight: 30.5 Lbs (Hard Case Option)

20.5 Lbs (Soft Case Option)

Environmental

Operational Temperature: -40°F to +140°F (-40°C to +60°C)

Environmental Compatibility: MIL-STD-810G

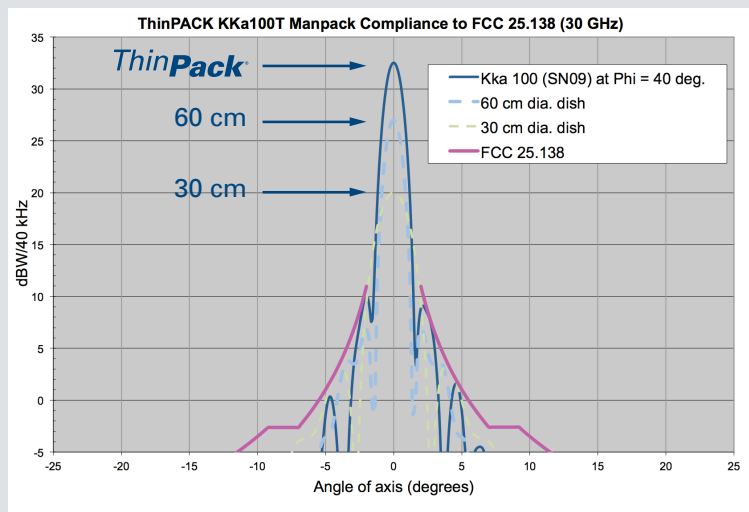
Performance (60cm parabolic dish equivalent... and better!)

Data Rates (Forward Link/Receive): up to 20 Mbps

Data Rates (Return Link/Transmit): up to 16 Mbps

Advantages and Benefits (relative to 60cm parabolic dish)

- No assembly required (fast, easy to align and stabilize)
- 50% less sensitive to pointing/alignment errors
- 65% smaller aperture area
- 80% less susceptible to wind-loading
- 50% lower profile in deployed condition
- Integrated transmitter/receiver (compact, no cables)
- Worldwide commercial and government Ka-Band coverage
- Polarization diverse (switchable LHCP/RHCP, orthogonal Tx/Rx)
- Ruck sack and airline overhead bin compatible.
- Supports 3x higher return data rates
- Ultra light weight



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TPKa100T Rev 10/14



Antenna with Tripod



Hard Case
(IATA Carry-on Compliant)

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