

ThinPack® Ku100(i)

Ultra-Man-Portable SATCOM Terminal



ThinKom

Global Connectivity

www.thinkom.com

Next Generation Portable Manpack Terminals Provide Commercial and Government Users Broadband Ku-Band Connectivity

ThinKom's portable, planar antenna provides high throughput and highly efficient use of transponder bandwidth in two different models. The Ku100 (US Domestic) and Ku100i (international) terminals' small form factor allow for a single, airline carry-on overhead compatible case. No antenna assembly is required and the antennas are fast and easy to align and stabilize. The broadband terminals support full international Ku-Band frequency coverage.

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General Information (Antenna)

Transmit Band: 13.75-14.5 GHz

Receive Band: 10.7-12.75 GHz

G/T (12.25 GHz)

Ku100: 9.0 dB/K

Ku100i: 11.5 dB/K

EIRP (14.25 GHz w/ 6W BUC*)

Ku100: 39.5 dBW

Ku100i: 40 dBW

Transmit Power Spectral Density (per 47 CFR 25.222, 25.209)

Ku100: 12.5 dBW/4 kHz

Ku100i: 15 dBW/4 kHz (H-Pol)

Tx Geo-Plane Beamwidth

Ku100: 3.2°

Ku100i: 3.0° V, 5.3° H

Polarization: Linear (manually aligned)

X-pol: < 20 dB typical

Tx/Rx Isolation: > 80 dB (built-in Diplexer/Filters)

Weight (including transceiver and tripod assembly):

Ku100: 14.5 lbs

Ku100i: 13.0 lbs

Environmental

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

Environmental Compatibility: MIL-STD-810

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

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

Data Rates (Return Link/Transmit): up to 10 Mbps

Advantages and Benefits (relative to 60cm parabolic dish)

- No antenna assembly required (fast, easy to align and stabilize)
- Up to 50% less sensitive to pointing/alignment errors
- Up to 65% smaller aperture area
- Up to 80% less susceptible to wind-loading
- Integrated transmitter/receiver (compact, small visual signature)
- Full international (Ku-Band) frequency coverage
- Single IATA compliant airline overhead case (Ku100 & Ku100i)
- Lightweight

*Larger BUC sizes available



Ku100



Ku100i

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