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.

www.thinkom.com
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