

Internet On The Move (IOTM) Ku band system



- Linear or circular polarization available
- Compatible with RADITEK DREAM modems, BUCs and LNBS
- Cold start acquisition <3min,
- <100ms re-acquisition after signal loss/block
- Rescan <20s
- High Power, low profile BUC (eg 20W) available
- Compatible with all Ka band satellites
- Ku band version is available
- DC power: 12-32V or 48V
- Precision reflector/ Cassegrain antenna
- High reliability, Horizontal ROTARY joint, slip rings, & bearings
- Precise Mechanical tracking system
- Pedestal is only 1 inch high
- 1:4 aspect ratio antenna
- Designed for most extreme conditions
- Complete INS on board
- G/T is typically 13.1 dBi/°K
- Azimuth tracks over 360°
- Elevation: 20-70°
- EIRP uplink typically 48 dBw

Applications include:

- SNG (Satellite News Gathering), Voice-Video-Data
- First responders: in-pursuit, in-route, and on-scene
- ANY mobile Internet "On The Move", single to triple play applications.
- To 8Mbps (2 Way) STAR or MESH connectivity
- Disaster recovery, ICE, FEMA, DHS mobile field ops etc



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The Raditek RIOTM-KU-40W-e14 is the leading edge, best and unique solution (triple play: voice, video, data) “Internet on the move”: solution. Continuous access at highway speeds. The sleek, super low profile, RFT System easily mounts on the roof of **any vehicle, boat or plane**. There is minimum set up, just connect to our (L band) modem unit, which uses the world’s most efficient, 2-way satellite system and 12 Volts, and it is ready to use. Data setup/interface is via RJ45 internet.

The unit is capable of up to 8Mbps, 2 way communications, with almost 100% satellite efficiency, when using Raditek’s advanced satellite DREAM modem using SCPC/DAMA with uplink power control and Automatic Bandwidth On Demand (ABOD). The remote vehicle’s system has its own IP address, same as if it was connected to a permanent land line. Please see Raditek’s DREAM Satellite network brochure for more information.

Order Example: RIOTM-KU-3.5'-40W-002 *includes antenna control unit and cabling*
Raditek Internet on the move, KU Band, 3.5ft Aperture Diameter, Waterproof, 40W BUC
Options: 5.0' 5.0ft Aperture Diameter 16W, 20W, 50W

Initial acquisition time	<3m
Re-acquisition after block	<100ms
Rescan	<20s
Uplink data rate	To 5.5Mbps
Uplink data rate	To 8Mbps
Operation temperature	-30 to 55 °C
Storage temperature	-30 to 70 °C
Operating Voltage/power	12-32V, 48V option 600W total with 20W BUC/SSPA
SIZE	
	98cm dia. 24cm high
Weight	37Kg
IF cable	75 Ω N type connectors (Tx, Rx)
Mil Standards	Designed to meet MIL STD 461E and MIL STD 810

General Specifications	
Polarization	Linear (optional circular)
Transmit band	13.75 to 14.5 GHz
Receive band	10.95-12.75 GHz
EIRP	45 dBw
G/T	11.1 dB/°K
Tx Crosspole isolation	21 dB min, 28dB typ.
IF frequency	950-2150MHz
BUC power	40W
3dB Beamwidth	0.9°-1.2° Az: 2.3°-2.8° EL.
Pedestal dynamics	
Azimuth	360° adjustable
Elevation	15°-90°
Angular velocity	Az 60°/ s ² ; El 100°/s ²
Angular acceleration	Az 45°/ s ² ; El 45°/s ²
Tracking accuracy	0.25°

