

Internet On The Move (IOTM Ka 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
- Ka 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



RIOTM-Ka-e14

Specifications may be subject to change

02/13/15



code-e14

Internet On The Move (IOTM Ka band system

The Raditek RIOTM-Ka-20W-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-Ka-20W-002

Raditek internet on the move, Ka Band,, 20W BUC

Initial acquisition	timo	<3m	
Initial acquisition time		*	
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)		
Tx Control	<50ms Tx shutdown after Rx loss		

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General Specifications		
Polarization	Circular	
Transmit band	27.75-31.05 GHz in 3 bands	
Receive band	19.2-21.75 GHz in 3 bands	
EIRP	48 dBw	
G/T	13.1 dB/°K	
Tx Crosspole isolation	21 dB min, 28dB typ.	
IF frequency	950-2150MHz	
BUC power	20W	
3dB Beamwidth	0.9°-1.2° Az: 2.3°-2.8° EL.	
Pedestal dynamics		
Azimuth	360° adjustable	
Elevation	20°-70°	
Angular velocity	Az 60°/ s ² ; El 110°/s ²	
Angular acceleration	Az 45°/ s ² ; El 45°/s ²	
Tracking accuracy	0.25°	



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