



Internet on the Move (IOTM) Ku-Band, with 40W BUC, 32dBi Antenna



Features:

- 52dBw with 40W BUC
- 2-way,
- On The Move
- Satcom antenna
- Up to 40W BUC



Raditek's highest gain IOTM system, the RIOTM-Ku-52dBw-v13 is a high performance, 2-way systems, ideal for Homeland Security agencies, emergency services, SNG, internet on trains/boats etc that require a real-time transmission of video and data on-the-move.

On-the-Move Communications

- The RIOTMHG-Ku-52dBw-v13 can be configured for use with virtually any Ku band satellite. Raditek's high-speed satellite tracking technology supports communication at speeds up to 120 km/h on and off-road. It provides data, video and voice streaming at speeds up to 10 Mbps on standard satellites.
- With a 30 centimeter (12 inch) height and 55 kilograms (121 pounds), it is one of the lightest antennas in its class, and suitable for safe installation on virtually any vehicle.

Benefits

- Lowest weight and highest Tx gain in-motion antenna in its class
- Elevation angle coverage from 0°
- Supports IP-based data, voice and video streaming up to 10 Mbps
- Automatically acquires and tracks the target satellite signal

Order Examples: RIOTM-Ku-52dBw-v13

Description: (Internet on the Move (IOTM) Ku-Band model with 40W BUC 36dBi Transmit)

RIOTM-Ku-EBUC-v13 -model With any external Standard BUC

Electrical Specifications	Antenna with any standard Ku Band RIOTM-Ku-EBUC-v13	-36dBi Antenna with 40W BUC RIOTM-Ku-52dBw-v13
Frequency Band:		
Receive: High band	10.95 - 12.75 GHz	10.95 - 12.75 GHz
Transmit	14.0 - 14.5 GHz	14.0 - 14.5 GHz
Polarization	Linear (auto polarization control)	Linear (auto polarization control)
Gain		
Receive	35 dBi	35 dBi
Transmit	36 dBi ±0.5	36 dBi ±0.5
Antenna G/T	13 dB/°K	13 dB/°K±0.5@11.7-12.75 11.5 dB/°K±1.0@10.95-11.7
Uplink EIRP	Depends on BUC power	52 dBW with 40W BUC
Cross Polarization	> 25 dB	~25 dB Typical
IF Input (Tx)	950-1450 MHz	950-1450 MHz
IF Output (Rx)	950-1450 MHz	950-2150 MHz
Power Supply	12-24 V _{DC} or 110-220 V _{AC} options	24-36 V _{DC} or 110-220 V _{AC} options
Continuous Power Consumption	Depends on BUC	160W Antenna unit+IDU+275W BUC

Internet on the Move (IOTM) Standard Ku-Band BUC / 40Watts BUC (optional)

Antenna Performance	Antenna with any standard Ku Band RIOTMHP-Ku-EBUC-v13	Antenna with 40W BUC RIOTMHP-Ku-52dBw-v13
Elevation Look Angle Range	0 - 90 °	0 - 90°
Azimuth Angle Range	360° continuous	360° continuous
Tracking Rate	150 °/sec	150 °/sec
Polarization Angle Range	-180° to +180 °	-180° to +180°
Initial Satellite Acquisition & Lock	<12sec (Beacon tracking)	<30sec, from cold start
Satellite Re-Acquisition	<5 sec (when blockage is <20 minutes)	<10 sec typically
Azimuth tracking accuracy	(0.2 ° @ 60°/s, 360°/s ²)	0.2° @ 60°/s, 200°/s ²
Elevation tracking accuracy	(0.9 ° @ 45°/s, 150°/s ²)	1.1° @ 60°/s, 400°/s ²
Electrical Interfaces		
Tx, Input	WR75 (from external BUC)	N Type (BUC internal)
Rx Output	TNC	TNC
Physical		
Outdoor Unit Size: (L x W x H)	51" (or 67" With BUC) x 51" x12" inches	51" x 54.9" x12" (130x139.4x30cm)
Outdoor Unit Weight:	110lb (antenna only excluding BUC)	121lb(55kg) antenna +7.8lb(3.5kg) BUC)
Indoor Unit Size:	1U 19"	1U 19"
Indoor Unit Weight:	2.8lb (1.3 kg)	13.2lb (6 kg)
Environmental		
Temperature Range	-40 to + 185°F	-40 to + 55°F
Relative Humidity	up to 95%	up to 95%
Ground Speed	Up to 220 mph	Up to 150Kmph- 93 mph
BUC Power	External*	40W* (internal)

*Other BUC options available

