

## Internet On The Move for LAND, SEA and Air!

Raditek IOTM can track any Satellite, On the Move:  
To 8Mbps, (2 Way) E-mail, WWW, VOIP voice, Video Conferencing....  
In MESH and/or STAR Network and/or DVB-S2 for Full Triple Play service.  
(Depends on Satellite Service Provider options)

### Applications include:

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



### Each Outdoor unit includes:

- Transmit and receive antenna
- Positioner
- GPS based controller
- Integral LNB and 25W BUC
- Power supply
- All in a single Robust sealed unit



- Advanced Modem (Above)
  - (Mounts inside vehicle)
- Outdoor unit (with weather proof cover removed above)

The Raditek RIOTM-KU-8W\*-p10 is the leading edge, best and unique solution (triple play: voice, video, data) "Internet on the move": solution. Continuous access at highway and aircraft speeds. The sleek, super low profile, (11 cm high) 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 etc. is via RJ45 internet.

*We have the Ku band model available now, and a Ka band version later in the year!*



The IOTM-Ku-8W ODU\* fits on standard roof rack. Low profile, small footprint..  
A Ruggedized Maritime version also available (for boats, yachts etc)  
(\*8W, 16W, 25 and 40W BUC powers also available.)

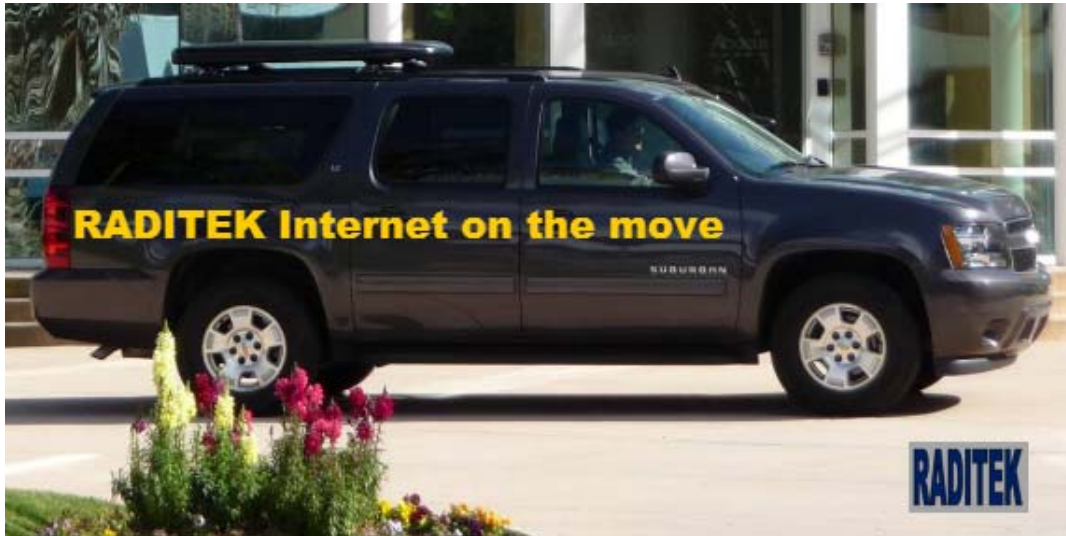
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### Intelligent Satellite Network Solution (RISN)

The RISN system can use Raditek's *advanced Smart IP Switched, Router satellite modem* using SCPC/DAMA with uplink power control and Automatic Bandwidth On Demand (ABOD). The unit is capable of up to 8Mbps, 2 way communications, with almost 100% satellite efficiency. Each vehicle's Modem has its own IP address, and acts as if it was connected to a permanent land line.

Please see Raditek's Satellite network brochure for more information.

We can offer complete network solutions for 2Mbps up and 8Mbps down on the lowest cost modem and 8Mbps up and 8Mbps down on the standard. The modem operates as a complete switching Internet router, and so any Internet application can be supported. MESH and STAR network configurations are even possible, together!



Combining our satellite network solution with this LOW PROFILE antenna/ODU module mounted on vehicles, boats or planes gives the best solution available for "**Internet on the Move**". Our unique modem line with their advanced switched Internet satellite network is ideal for any Internet based application to 8Mbps both directions. Our solution uses a unique combination of: SCPC with DAMA (Demand Assigned Multiple Access), with automatic uplink power control, and automatic bandwidth on demand, and combined with the most advanced Turbo Product Code, which can give Bit Error Rates as low as 10E-8 to 10E-10 with only a few tenths of a dB more Eb/No, than the already very low level needed for 10E-6!

### DVB-S/S2 Satellite TV on the Move

If DVB video is needed, for *video on the go*, we offer our **DVB-S/S2 Demod**, combined with our SCPC/DAMA remote modulator. We have a remote DVB-S2 modem that can be used up to receive 45 Msps (around 100Mbps with 0.75 coding and 8PSK) and using our SCPC/DAMA on the uplink from the vehicle back to the hub.

This supports all 2-way, **internet triple play applications, ie VOIP voice, IPTV Video and 2-way data.**

DVB-S2 was originally intended for broadcasting video, and then, when "**high speed**" data applications were needed, the RCS return channel was added for a low data rate return channel. **Using TDMA approaches like this is usually very ill advised, unless nothing better is available** (like our system). The RCS efficiency on the satellite is approaching 50%, Using RADITEK's return approach., we see around 98% satellite efficiency, ie ~half the satellite usage cost vis a vis RCS!

**Contact the factory or nearest RADITEK representative for more details**