

# RADITEK SOLUTIONS-Telecom

**RADITEK specializes in Design, Development, Manufacturing of "HIGH VOLUME / LOWEST COST" Wireless and Microwave Components and Sub Assemblies & Systems**

**Cellular / UMTS / 3G / PCS Base Station – Military – RFID – Broadband - Wi-Fi – WiMax - Wireless**

## SATCOM VSAT Systems:

- DREAM Modem SCPC or DAMA gives up to 98% satellite efficiency, supports IP traffic to 20 Mbps as standard and TPC to 16QAM with low cost remote and hub.
- EXTREME Advanced SCPC Modems 64QAM/155Mbps, options including: to 8 x E1 and IP, DVB-S2, and the most advanced LDPC+ and SIMU-Carrier, offering BPSK, QPSK, 8PSK, 16PSK, 32PSK, 64QAM etc.
- BUCS (Block Up Converters) L Band, S band, C Band, X Band, Ku Band, Ka Band, Raditek BUC's small size and weight allow direct feed horn / antenna mountin
- Ku Band BUC's 40W (GaN) weighs only 5½ lbs, for example , to 250W 1+1
- C Band BUC's to to 500W 1+1 protected, Ku Band 250W
- LNA and LNB C, X, Ku and Ka Bands
- Frequency Converters embedded redundancy options and extensive M&C up to 4 converter modules in a single 1RU shelf, Hot-swappable, EIA232/EIA485 and Ethernet.
- Telemetry / TT&C Systems
- Antennas for Small Manpack Satcom and Carbon fiber flyaway to installing Ship borne stabilized tracking antenna and Low profile Internet On The Move for vehicles and yachts.
  - Antenna Remote ( < 4 Meters )
    - 0.2m, 0.4m, 1.2m, 2.4m and 3.7m
  - Antenna Hub ( > 4 Meters )
    - 4.5m, 6.2m, 9.0 to 15m either manual or tracking

## RADLINK, Wi-Fi, WiMAX, Point to Multipoint

- Licensed and Unlicensed Bands 400-6000MHz
- Including 2.4 and 5.8GHz, Point to Multipoint and Point to Point, last mile.
- Wi-Fi: 80211a, 80211b, 80211g, 80211n
- WiMAX: 80216 Rev D, 80216 Rev E, Point to Multipoint
- RADLINK Family, OFDM modulation and MIMO technology, TDMA, exceptional range and speed:
  - (100+Mbps real TCP) performance. Fixed P2MP solution that can deliver 300 Mbps air-rate per sector)
  - (150+Mbps layer 2 TCP); High spectral efficiency (7.5bits/Hz) Long Range (30Km+)
- Compact, lowest cost, Quick installation, Last mile and backhaul.

## Terrestrial Telecom Systems: Licensed Bands 6-38GHz

- Transceiver, Point to Point and Point to Multipoint, 7, 13, 23GHz 120Mbps (IP and to 64 x E1), 23GHz to 360Mbps (2 x STM1 etc).
- Modulation Options: BPSK, QPSK, 8PSK, 16PSK, 64PSK, 128PSK, 256PSK, ACM, TDMA, PDH, SDH, ACM.

## HF, VHF, and UHF Bands:

- HF Transceivers 2-30MHz 500 Channels, 100/500/1000W PEP
- HF Amplifiers 1.6-30MHz fo 5KW CW and Pulse
- Digital TV Transmitters for VHF and UHF Bands, 25 Watts to 1000 Watts



**Ku-Band Micra-BUC, GaN Block-Up-Converter**

16, 20, 25, 40 and (50 Psat) Watts, ODU, 1+1 Redundancy Unit Optional



**RBUC-C-WR137-F(f)-5W**

C-Band Block Up Converter features small and light weight with a high efficiency output power



**L to Ku-Band Block-Up-Converter**

200W (P1dB) or 250W (Psat), ODU, Available in both standard and Extended Ku-Bands, 16x13x10.7 In.













**C-Band & Ku Band, HUB/Earth Station Antenna, 6.2 Meters, Motorized.**

RADITEK can even supply all kinds of antennas from man pack/ad hoc to the large hub units such as the ones shown here. C-Band, X & Ku Band Example shown: Earth Station Antenna, 9m diameter, Motorized

# RADITEK SOLUTIONS-Telecom

**RADITEK specializes in Design, Development, Manufacturing of "HIGH VOLUME / LOWEST COST" Wireless and Microwave Components and Sub Assemblies & Systems**

**Cellular / UMTS / 3G / PCS Base Station – Military – RFID – Broadband - Wi-Fi – WiMax - Wireless**

 <p><b>C and Ku Band SSPA Amplifier</b> Shown is: 400W C band over 5.850-6.725GHz, Redundant Ready, Features, High RF output power Low spurious levels Various output power rating</p>	 <p><b>RANT-C-Ku Band-4.5M.</b> Satcom/VSAT Antennas: Raditek has deployable as shown, plus On the Move types. Also can supply/install up 15m base station antennas with tracking (even inclined orbit satellites)</p>	 <p><b>RADLINK-2000 Series</b> IP RADIO: 300Mbps (to 6x6) MIMO Non Line of Site, WI-Fi 802.11a/b/g/n, Multi-Hop Repeater, Low Latency, Backhaul for 4G and LTE networks</p>	 <p><b>IOTM, (Internet on the Move)</b> Ku and Ka band auto tracking for Vehicles, Aero planes, Ships, Trains giving full Satellite access on the move</p>
 <p><b>Ku Band Antenna</b> for SNG, Portable Assisted Satellite location and tracking</p>	 <p><b>RBUC Ka 5W</b> Ka Band BUC (29-30G). Powers up to 20W are also available</p>	 <p><b>Extreme SCPC modem</b> This Satellite Modem has up to 155Mbps/64APSK, SCPC and DVB-S2/S2x</p>	 <p><b>RMOD-DREAM MODEM</b> Dama Ready Modem, can support to 20Mbps/16QAM/LDPC MODCOD. Multi-mode:SCPC, TDM/Mini hub and full DAMA see also Dream Pro</p>
 <p><b>Ka Band Low Noise Block (LNB)</b></p>	 <p><b>HF SSB Transceiver 1-30MHz</b>, for direct use and as an exciter for High power amplifiers</p>	 <p><b>Broadcast Products FM Exciter/1KW Power Amp</b> 19 inch rack mount, Digital and analog standard interfaces</p>	 <p><b>Transmission Products Licensed band Point to Point, All Out door Link</b></p>
 <p><b>Ka- Band Earth Station Antenna</b>, 39-30GHz, 0.2Meters</p>	 <p><b>Satcom Manportable X Band Transceiver</b>, easily deployed with Automated satellite finding</p>	 <p><b>Ku Band Antenna</b> for SNG vehicle Mounted, Auto Satellite location and tracking</p>	 <p><b>RANT-Ku Band-1.5M-D-u10</b> Ku Band Antenna 1.5M</p>