Smaller, Lighter and more Powerful Next Generation AntBUC® Series allows significant high power BUC / SSPB / SSPA size and weight reduction and at the same time substantially improves thermal efficiency, which leads to higher reliability and longer MTBF.

That's why IRT offers 3 years warranty for this product line! The Next Generation IRT Technologies powered by GaN Technology 150W / 200W Ku-Band AntBUC® Series are very compact, light and extremely powerful. Using patent pending Z-combining method and advanced GaN technology new IRT 150W / 200W AntBUC® has truly outstanding power density - up to 200W PSAT in this super compact 15.5” x 10” x 6.3” package weighing only 28 lbs. IRT 150W / 200W Ku-Band AntBUC® features best in class RF characteristics, RF sample port, true RMS power measurements, extensive moCnitor and control capabilities enabled via Ethernet, Serial and/or Analog Interfaces. 150W / 200W AntBUC® remarkably compact size and high thermal efficiency results in overall system size and cost reduction making it the ideal candidate for mobile and fixed VSAT applications.

**KEY FEATURES**
- Up to 200W PSAT
- Superior RF performance
- RF Overdrive Protection
- Available in both standard and Extended Ku-Band
- Field upgradable software
- Internal / Autosense 10MHz Reference Options
- Switchable LO option - Standard and Extended Ku- Band in one unit
- Input and Output True RMS Power Detection
- Configuration via RS-232 serial console, packet protocol RS-485
- Automated Level Control (ALC) Option
- Redundant ready - No External Redundancy Controller Required
- Status LED
- Antenna Mounting kit Optional

**RF PERFORMANCE (1/2)**
- RF Freq. Range-Available in/switched: 14-14.5GHz / 13.75-14.5GHz
- IF Frequency Range: 950-1450MHz / 950-1700MHz
- LO Frequency (Switchable) Conversion: 13.05GHz / 12.8GHz
- Saturated Power: 150W - 52dBm typ, 200W - 53dBm typ
- Linear power:
  - 150W - 49dBm typ
  - 200W - 50dBm typ
- Conversion Gain:
  - 75dB min, 77dB typ
- Gain Flatness:
  - +/-1dB typ +/-15dB max over full band
  - +/-0.5dB max over any 40MHz
  - +/-1.5dB over full temp. range
  - 3dB typ 4dB max from 10dB back off to rated power
- Gain Control: 20dB min dynamic range
- External Reference Frequency: 10MHz multiplexed with IF In
- External Reference Required Phase Noise:
  - -130dBc/Hz @ 100Hz
  - -140dBc/Hz @ 1kHz
  - -150dBc/Hz @ 10kHz
  - -155dBc/Hz @ 100kHz
- Up-Converter Phase Noise:
  - -68dBc/Hz @ 100Hz;
  - -80dBc/Hz @ 1kHz;
  - -90dBc/Hz @ 10kHz
  - -95dBc/Hz @ 100kHz
  - -115dBc/Hz @ 1MHz

**RF PERFORMANCE (2/2)**
- Linearity: -24dBc at P linear
  - -30dBc for QPSK at 1.5xsymbol rate at Plinear +1dB
- Noise Power Density:
  - Transmit Band: -85dBm/Hz max
  - Receive Band: -148dBm/Hz max
- Output Spurious:
  - Non-signal related: -60dBc
  - Signal related: -55dBc

**POWER**
- AC Voltage Range: 90-265VAC 50-60Hz auto-ranging PFC
- Power Consumption at rated power:
  - 150W: 1000W
  - 200W: 1150W
- Power Consumption 3 dB back off:
  - 150W: 600W
  - 200W: 800W

**MECHANICAL**
- Size: 15.4” x 9.9” x 7.6”
- Weight: 28lbs
- Cooling: Forced Air
- Operating Temperature: 40 C to +55 C
- Relative humidity: Up to 100% condensing

**INTERFACES**
- IF Input Connector: N-type female
- RF Output Connector: WR75 Grooved
- RF Sample: N-type female
- AC Power In: MS3112E12-3P
- M&C Interface-Serial, Analog: MS3112E14-19S
- Redundant Interface: MS3112E14-19P

**PART NUMBERING INFORMATION**
- AC Power Supply 150W: TPB-KXB0520-HMS0
- AC Power Supply 200W: TPB-KXB0530-HMS0