AntBUC® SERIES SUPER HIGH POWER DENSITY
600W / 800W / 1000W C-BAND
GAN POWERED SSPA / BUC

Smaller, lighter and more Powerful AntBUC® Series World’s Smallest and Lightest The Most Powerful and Linear GaN Powered C-Band SSPA / BUC 600W / 800W / 1000W available on the market today AntBUC® Series allows significant high power Solid State Power Amplifier / Block Up Converter 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 new IRT Technologies Powered by GaN Technology 600W / 800W / 1000W C-Band SSPAs / BUCs AntBUC® series are very compact, light and extremely powerful. Using patent pending Z-combining method and advanced GaN technology new IRT 600W / 800W / 1000W C-Band AntBUC® SSPA / SSPB / BUC has truly outstanding power density - up to 1000W PSAT in this super compact 22.6”x18”x10.7” package weighing only 110 lbs.

IRT 600W / 800W / 1000W C-Band AntBUC® BUC features best in class RF characteristics, RF sample port, true RMS power measurements, extensive monitor and control capabilities enabled via Ethernet, Serial and/or Analog Interfaces. 600W / 800W / 1000W C-Band AntBUC® BUC 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 1000W Psat
- Superior RF performance
- RF Overdrive Protection
- BUC or SSPA Optional
- Field upgradable software
- Internal / Autosense 10MHz Reference Optional
- Available in Standard and Full C-Band
- Switchable LO Option - Standard and Full C-Band in One Unit
- Input and Output True RMS Power Detection
- Configuration via RS-232 serial console, packet protocol RS-485 - User friendly HTTP based GUI and SNMP
- Automated Level Control (ALC) Optional
- Redundant Ready - No External Redundancy Controller Required
- Status LED
- Antenna Mounting Kit Optional
- External Rackmount Remote M&C Panel Optional

RF PERFORMANCE
- RF Freq. Range-Available in/switched: 5.85-6.425GHz - 5.850-6.725GHz
- IF Frequency Range: 950-1525MHz - 950-1825MHz
- LO Frequency: 4.9 GHz
- Conversion: Single Conversion; non-inverting
- Saturated Power: 600W 58dBm / 600W typ.
- 800W 59dBm / 800W typ.
- 1000W 60dBm / 1000W typ.
- Linear Power: 600W +55dBm / +300W min.
- 800W +56dBm / +400W min.
- 1000W +57dBm / +500W min.
- Conversion Gain: 75dB min, 77dB typ
- Gain Flatness: +/-3dB typ +/-15dB max over full band
- Gain Stability over temperature: +/-1dB over full temperature range
- Gain Stability over input power: 3dB typ 4dB max from 10dB back off to rated power
- Linearity: 2 tone IMD Spectral Re-growth
  - +55dBc / +400W min
  - +56dBc / +400W min
  - +57dBc / +500W min
- Gain Control: 20dB min dynamic range
  - 10MHz multiplexed with IF In
  - External Reference Frequency
- External Reference Required
- Phase Noise
- Up-Converter Phase Noise
- Power Consumption at rated power
  - 600W 2700W
  - 800W 3200W
  - 1000W 3400W
- Power Consumption 3 dB back off
  - 600W 2700W
  - 800W 3200W
  - 1000W 3400W

MECHANICAL
- Size: 22.6” x 18” x 10.7”
- Weight: 110lbs
- Cooling: Forced Air
- Operating Temperature: -40 C to +55 C
- Relative humidity: Up to 100% condensing

POWER
- AC Voltage Range: 190-265VAC 50-60Hz
  - Auto-Ranging PFC
- Power Consumption at rated power
  - 600W 3000W
  - 800W 3500W
  - 1000W 3750W
- Power Consumption 3 dB back off
  - 600W 2700W
  - 800W 3200W
  - 1000W 3400W

3 avenue du Canada, bát. Zeta, 91940 Les Ulis, France  +33 1 69 18 19 30  www.eurosatcom.eu  sales@eurosatcom.eu
**AntBUC® SERIES SUPER HIGH POWER DENSITY**

**600W / 800W / 1000W C-BAND**

**GAN POWERED SSPA / BUC**

### INTERFACES

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>IF Input Connector</td>
<td>N-type female</td>
<td>MS3112E12-3P</td>
</tr>
<tr>
<td>RF Output Connector</td>
<td>WR137 grooved</td>
<td>MS3112E14-19S</td>
</tr>
<tr>
<td>RF Sample</td>
<td>N-type female</td>
<td>MS3112E14-19P</td>
</tr>
<tr>
<td>AC Power In</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M&amp;C Interface-Serial, Analog, Ethernet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redundant Interface</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PART NUMBERING INFORMATION

- C-Band, AC Power Supply, Ext.
- 10MHz Ref.
- 600W: TPB-CB0580-HMS0
- 800W: TPB-CB0590-HMS0
- 100W: TPB-CB0600-HMS0