



## Dual Channel VHF/UHF/L-Band Power Amplifier

The Crescend Dual Channel High Power Amplifier is a small, lightweight amplifier fully capable of extending the communication range for legacy and next generation waveforms. The combination of two internal frequency channels (UHF, VHF/L-Band) provide for User Definable simultaneous 2 channel operation. The compact design is an ideal choice for airborne applications and compliant to MIL STD 704E.

### Performance Advantages

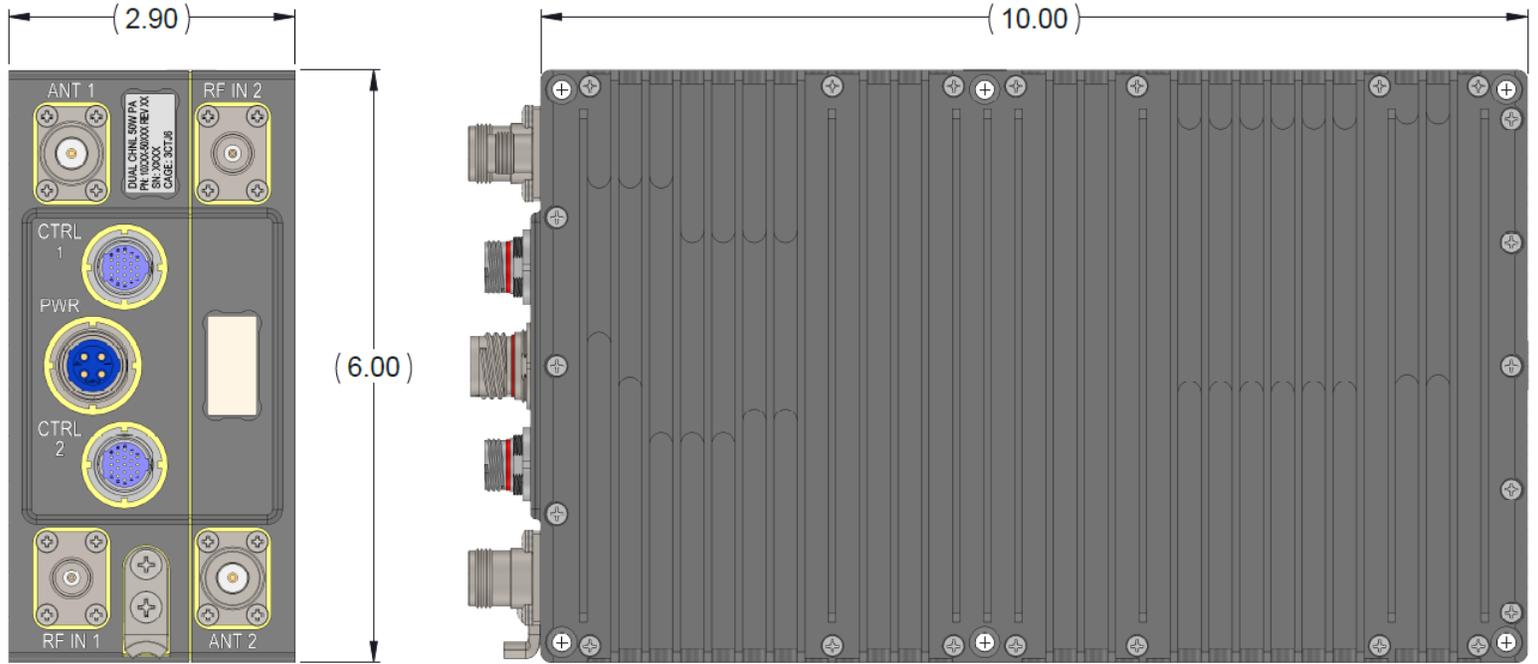
- Compact Size, Weight, and Power
- Addresses Airborne Rotary/Fixed Wing (manned/unmanned) platforms
- Configurable waveforms/frequency band for TSM-X, VHF/UHF AM/FM LOS, SRW, SINCGARS, ANW2, ATC, HAVEQUICK I/II, P25, DAMA, SATCOM
- Capable of simultaneous Dual Channel operation
- DC (aircraft bus power) input from 18-36V, nominal power consumption
- RF Input frequency sensing
- Configurable to any airborne radio interface
- Cosite mitigation for adjacent channels
- 10% offset TX & RX filters (-30dBc)
- Form factor: 10.0"L x 3.0"W x 6.0"H w/o connectors
- Weight 8.5lbs
- Automatic Leveling Control (ALC)
- VSWR sensing
- Selectable RX one or two LNA gain stages
- Environmentally sealed design meeting all MIL STD 810 requirements
- Flight Safety qualified
- Failsafe by-pass path



### Specifications

|                               |   |
|-------------------------------|---|
| <b>Frequency Range</b>        | 30MHz-512MHz<br>1250MHz-2600MHz                                 |
| <b>RF Input Power</b>         | 0.5 W minimum<br>10W maximum                                    |
| <b>RF Output Power</b>        | 30-512 MHz 50W<br>1250-2600 MHz 25W                             |
| <b>Duty Cycle</b>             | 100% continuous   |
| <b>Harmonics and Spurious</b> | CE106, typically  |
| <b>Output Load Impedance</b>  | 50 ohm nominal  |
| <b>Input Port VSWR</b>        | 1.5:1 (50 ohms)   |
| <b>Load VSWR</b>              | 3.0:1 max   |
| <b>DC Input Voltage</b>       | 10- 36 Vdc, MIL 1275 and 704 options                            |
| <b>Out of Band Rejection</b>  | 30db $\pm$ 10% Fc nominal                                       |
| <b>DC Power Consumption</b>   | 200W per channel  |
| <b>Environmental</b>          | -40C to +60C<br>MIL-STD-810G/461F/1275D/704F                    |
| <b>Interfaces provided</b>    | Customizable : RS 232, 422, 485, LVDS, Ethernet                 |
| <b>Connector Interface</b>    | N, TNC, as specified  |
| <b>Chassis Finish</b>         | Black anodized/powdercoat, CARC or chemical conversion optional |

# Dual Channel VHF/UHF/L-Band Power Amplifier



**Defense**  
1803 Mt. Rose Avenue  
Bldg. B  
York, PA 17403  
P: 717.235.5474  
F: 717.227.4444

**Headquarters**  
140 East State Parkway  
Schaumburg, IL 60173  
P: 847.908.5400  
F: 847.908-5408

[www.crescendrf.com](http://www.crescendrf.com)  
[sales@crescendrf.com](mailto:sales@crescendrf.com)