

### FEATURES

Small and light rack mounted chassis  
 Class AB linear LDMOS & GaN Hybrid design  
 Dual-Band, manual switching ultra-broadband  
 Suitable for all single channel modulation standards  
 Built-in protection circuits  
 Universal voltage AC power supply  
 High reliability and ruggedness

### ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range Band A	100 - 1000 MHz	
Operating Frequency Range Band B	1.0 - 18.0 GHz	
Power Output @ Psat	5 Watt Min	CW
Power Gain	43 dB Min	
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	27dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-25 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	200 Watt Max	At rated Pout
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1	<1 minute at rated Pout.

### ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation

### MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 560 mm	2U rack mount
Weight	9 kg.	
RF Connectors In/Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control	Ethernet RJ-45 TCP/IP, RS422/485	Remote Bluetooth application
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Optional GPIB Interface	

### Applications

Test and Measurement  
 Electronic Warfare  
 Radar  
 Broadband Jamming  
 Public Safety

### Quality & Certifications

AS9100 Rev C  
 ISO9001:2008  
 RoHS compliance  
 Conflict Minerals Compliant



MtronPTI SSHA Products: <http://www.mtronpti.com>

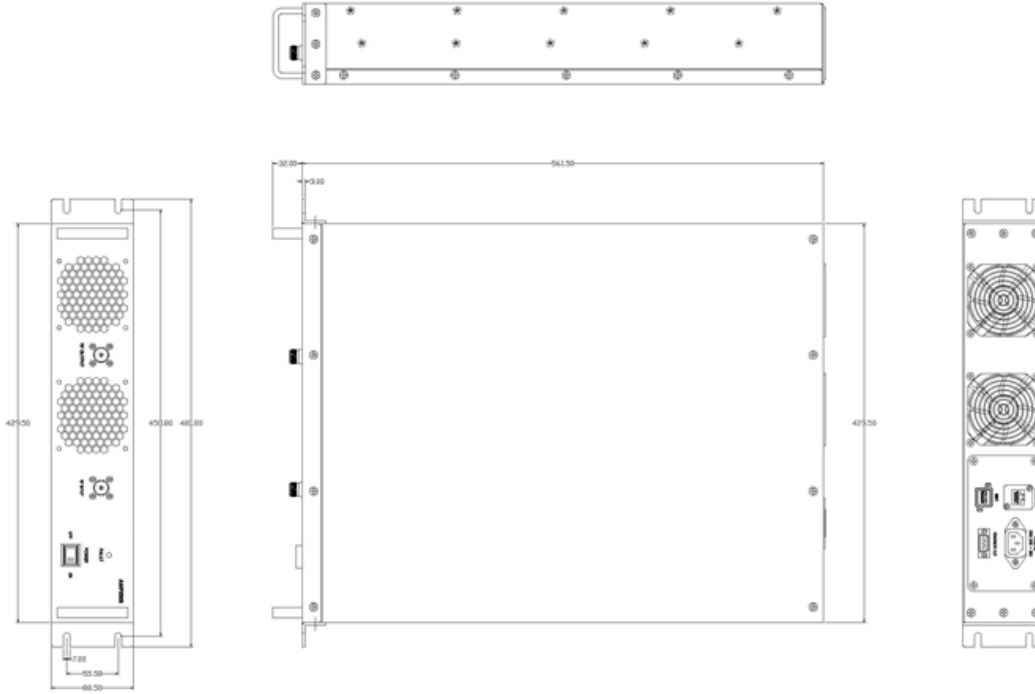


## Connect with MtronPTI

[mtronpti.com](http://mtronpti.com)

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#### Experienced

MtronPTI continues nearly fifty years of service to aerospace, defense communication and control, Internet and mobile infrastructure, lab and field instrumentation EMs.

#### Vertically integrated

MtronPTI provides High reliability, High Power Solid State Power Amplifier solutions for demanding applications. Our design and manufacturing capabilities cover 50KHz to 47GHz frequency range with power levels of 1W to 4kW for CW & Pulse application modules and over 10kW for such systems. Synergy between our engineering manufacturing— from concept, simulation, electrical & mechanical layouts to assembly & testing capabilities allow for quick engineering & manufacturing responses to customer requests.

#### One-on-one technical relationships

Each project is unique in design, environmental, schedule and cost requirements. MtronPTI engineers work with your designers to select the best approach. Six sigma and AS9100 Rev C quality systems ensure reliable solutions.

#### Long term support

MtronPTI uses Rapid Process Feedback, Lean Manufacturing and Demand Flow Technology for right product, right time, on specification. MtronPTI also manages the supply chain: aligning forecasts, qualifying purchased component suppliers and working with distributors, hubs and portals to make sure every time the production line reaches for an MtronPTI part, it'll be there.

