Integrated Solid State Power Amplifier Module
1150 to 2750MHz, 60 Watts
MODEL BME128278-60

Features:
- All GaN RF Devices
- Rated Power Over the Entire Bandwidth
- Highest Efficiency Over the Entire Bandwidth
- Rugged and Reliable into High VSWR Loads
- Extreme Temperature Range Up to 95ºC
- RF Output Sample Ports – Forward/Reflected
- Go/No Go BIT circuitry
- Suitable Building Block for Rack Mounted Systems

Performance Specifications
- Frequency Range: 1150 to 2750 MHz
- RF Power Output: 60 Watts Min.
- RF Input: -9 dBm Typical
- RF input Overdrive: 20 dBm Max.
- DC Bias: AB Linear
- Modulation Format: Multi-tone, CW, AM, FM, Pulse
- Input VSWR: 1.5:1 Typical
- Output Load VSWR: 2.0:1 Full Power Output Typical
- Harmonic (2nd/3rd): <-25 dBc Typical (-15 dBc Max)
- IM Products (4 Tones): <-12 dBc Typical
- Spurious: <-60 dBc
- Stability: Open/Short all phase angles
- Control Interface:
  PA Enable (Blanking): 3.3V Logic <2us
  Summary Fault Output: 3.3V Logic (Over Temperature, Over Current)
  Temperature Monitor: (SPI)
  User Calibration Memory: (SPI)
- DC Input: 27-29 Vdc (Other Input Voltages are available)
- DC Power @ 28V: 300W max
- Efficiency (DC to RF): > 20% Typical
- Blanked Noise Power Output:
  Forward: -36 dB Typical
  Reflected: -15 dB Typical
- RF Connectors:
  RF Input and Output: SMA
  RF Sample Ports: SMA
- Interface Control/DC Connector:
  D-Subminiature
- Operating Temperature:
  -40 to 85ºC Baseplate
  (external heatsink required)
- Environmental:
  Shock/Vibration:
  MIL-STD-810F
- Size:
  5.5” x 6.5” x 1.65”
- Weight: <2.5 lbs.

COMTECH PST proudly introduces its latest market basket of Integrated High Power Amplifier Modules, further expanding its proven integrated RF GaN Power Amplifier module product line. These innovative designs incorporate RF output sample ports and Go/No Go fault detection circuitry that are ideally suited for applications requiring high RF power density, improved efficiency, high VSWR tolerance. Consistent with its planned technology development roadmap, Comtech is a stalwart leader with the latest performance based GaN RF devices and advanced amplifier development. These highly integrated designs are preferred by its customers for use in communication, electronic warfare, and radar transmitter systems where space, cooling, and power are limited. Applications include ground (dismounted, mobile or fixed), surface, and airborne platforms.