

Rack Mounted Amplifiers and Systems

Aethercomm designs and manufactures rack mounted amplifiers and systems from 10 MHz to 40+ GHz with power levels up to 5000 watts. We can rack mount any of our existing amplifiers or systems or custom design the amplifier and enclosure. Aethercomm also rack mounts system-level designs to include transmitters and receivers with DC and control circuitry.

Rack mounted amplifiers and systems include:

- power amplifier modules with power combining
- AC-DC or DC-DC converters with EMI filtering
- forward/reflected power monitoring
- current and temperature monitoring and reporting
- fans or liquid cooling for optimum performance and high MTBF
- remote controlling/reporting with serial or parallel interfaces
- application-specific labeling
- over-temperature shut-down
- linearization
- internal gain control
- receiver integration

- Transmit/Receive (T/R) module integration
- other high performance options upon request

Standard features on the internal amplifiers for these rack mounted products include:

- over-voltage protection
- reverse polarity protection
- output infinite impedance protection
- high speed DC blanking as required

If you do not see the product you need in the standard offerings listed below, please contact the factory with your specific requirements. Aethercomm will design and manufacture your custom amplifier or system to your exacting specifications.

All data presented is at room temperature. Visit www.aethercomm.com for a complete list of datasheets.

SSPA 0.35-0.50-100-RM



- Operation from 350 MHz to 500 MHz min
- Can be modified for operation from 20 -1000 MHz
- 200 watts peak output power typ
- 115 Vac operation

SSPA 0.35-0.50-1000-RM



- Operation from 350 MHz to 500 MHz min
- 1000 watts peak output power typ
- 230 Vac, 3 phase operation
- Multiple BIT and protection features on rack

SSPA 1.03-1.09-1000-RM



- Operation from 1030 MHz to 1090 MHz min
- 1000 watts peak output power min
- 60 dB saturated gain typ
- 100 uSec pulse width typ
- 1-10% duty cycle typ

SSPA 1.025-1.150-1000-RM



- Operation from 1025 MHz to 1150 MHz min
- 1000 watts peak output power min
- 60 dB gain typ
- Typical operational pulses are IFF waveforms
- 10% duty cycle maximum

SSPA 1.2-1.4-500-RM



- Operation from 1.2 GHz to 1.4 GHz min
- 400 watts peak output power typ
- 54.0 dB small signal gain typ
- 100 uSec pulse width typ
- 10% duty cycles typ

SSPA 1.2-1.4-800-RM



- Operation from 1.2 GHz to 1.4 GHz min
- 800 watts peak output power typ
- 50 dB gain typ
- 100-1000 uSec pulse width typ
- 10% duty cycles typ

SSPA 3.1-3.5-1300-RM



- Operation from 3100 MHz to 3500 MHz min
- 50 dB saturated gain typ
- 1300 watts peak output power min
- 208-220 VAC operation
- Gallium nitride power amplifier