# HD32131
# SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

**FEATURES**

Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for CW, pulse, and all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



**ELECTRICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 6.0 - 8.0 GHz | |
| Power Output @ Psat | 200 Watt Min | Pulse or CW mode |
| Power Gain | 53 dB Min | |
| Gain Adjustment Range | 20 dB Typ | Manual or Remote |
| Power Gain Flatness | 3.0 dB p-p Max | |
| Input Return Loss | 10 dB Min | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | 43dBm/Tone, Δ = 1MHz |
| Noise Figure | 10 dB Max | |
| Harmonics | -20 dBc Typ | At rated output power |
| Spurious | -60dBc Max | Non-harmonics |
| Operating Voltage | 180 - 240 VAC | Single phase |
| Power Consumption | 2400 Watt Max | |
| Max Input Power Protection | +3 dBm | <10 Seconds without damage |
| Load VSWR Protection | 5 : 1 | <1 Minute @ rated output |

**ENVIRONMENTAL CHARACTERISTICS**

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

**MECHANICAL SPECIFICATIONS**

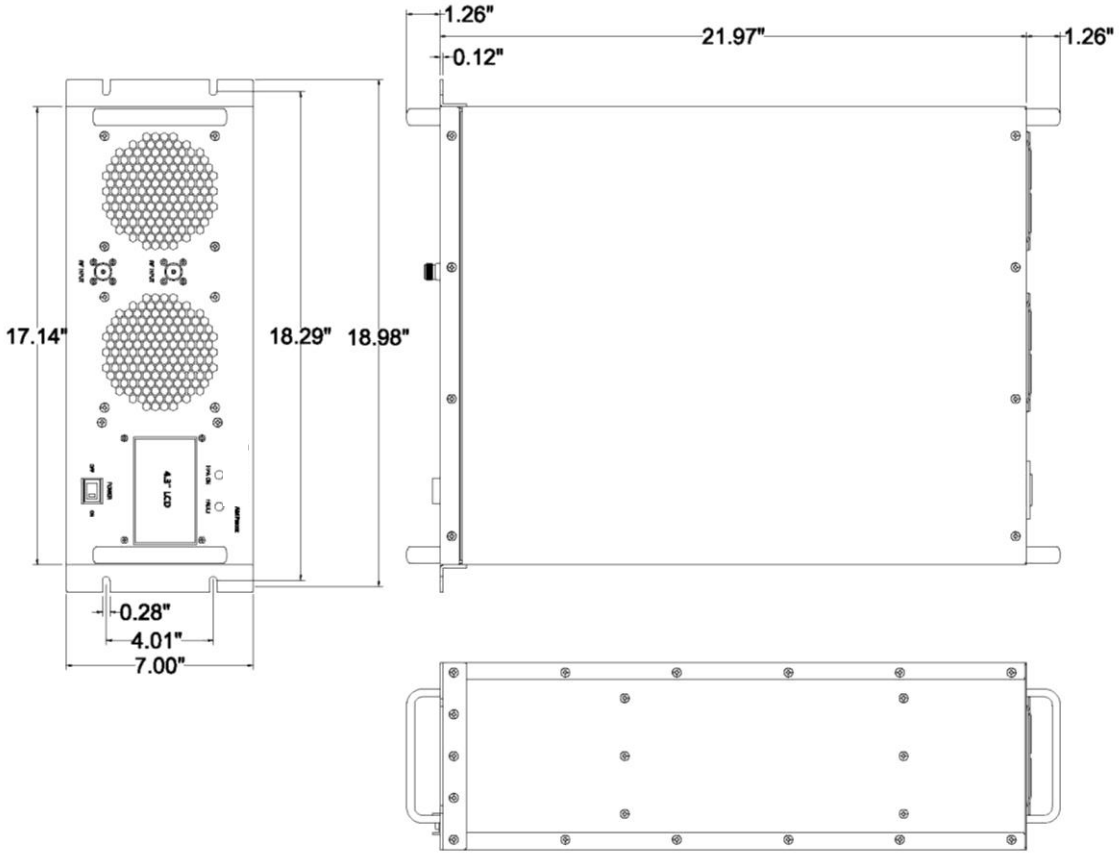
| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 19” x 7” x 22” (483 x 178 x 580 mm) | 4U |
| Weight | 30 Kg. | |
| RF Connectors In/Out | Type-N Female | |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | |
| Cooling | Built in Fan Cooling | |
| **OPTIONAL:** Digital Control:<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485<br>Optional GPIB Interface | Remote Bluetooth application |

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**OUTLINE DRAWING**




*. NOTE
1. 4U, 4.3" LCD.
2. RF IN/OUT Connector : N type Female
3. AC Connector : IEC 60320-C14

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