# HD32082
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

Rack mounted system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness

**ELECTRICAL SPECIFICATIONS** @ 50 Ohm

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 400 - 1200 MHz | |
| Power Output | 2200 Watt Typ / 2000 Watt Min | CW |
| Power Output @P1dB GCP | 1000 Watt Typ | CW |
| Power Gain | 63 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 | 53dBm/Tone, Δ = 1MHz |
| Harmonics $2^{nd}$ / $3^{rd}$ | -25 / -15 dBc Typ | |
| Non Harmonics Spurious | -60 dBc Max | Non-Harmonics |
| Operating Voltage (3 Phase) | 187-264 VAC Delta (4 wire) Wye compatible | 47-63Hz, 3-phase |
| Power Consumption | 10 KW Max | At rated Pout |
| Max Input Power protection[1] | +5 dBm | Without damage |
| Load VSWR Protection | ∞: 1 | For <10 Sec |

1 - 0dBm input for normal operation

**ENVIRONMENTAL CHARACTERISTICS**

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

**MECHANICAL SPECIFICATIONS**

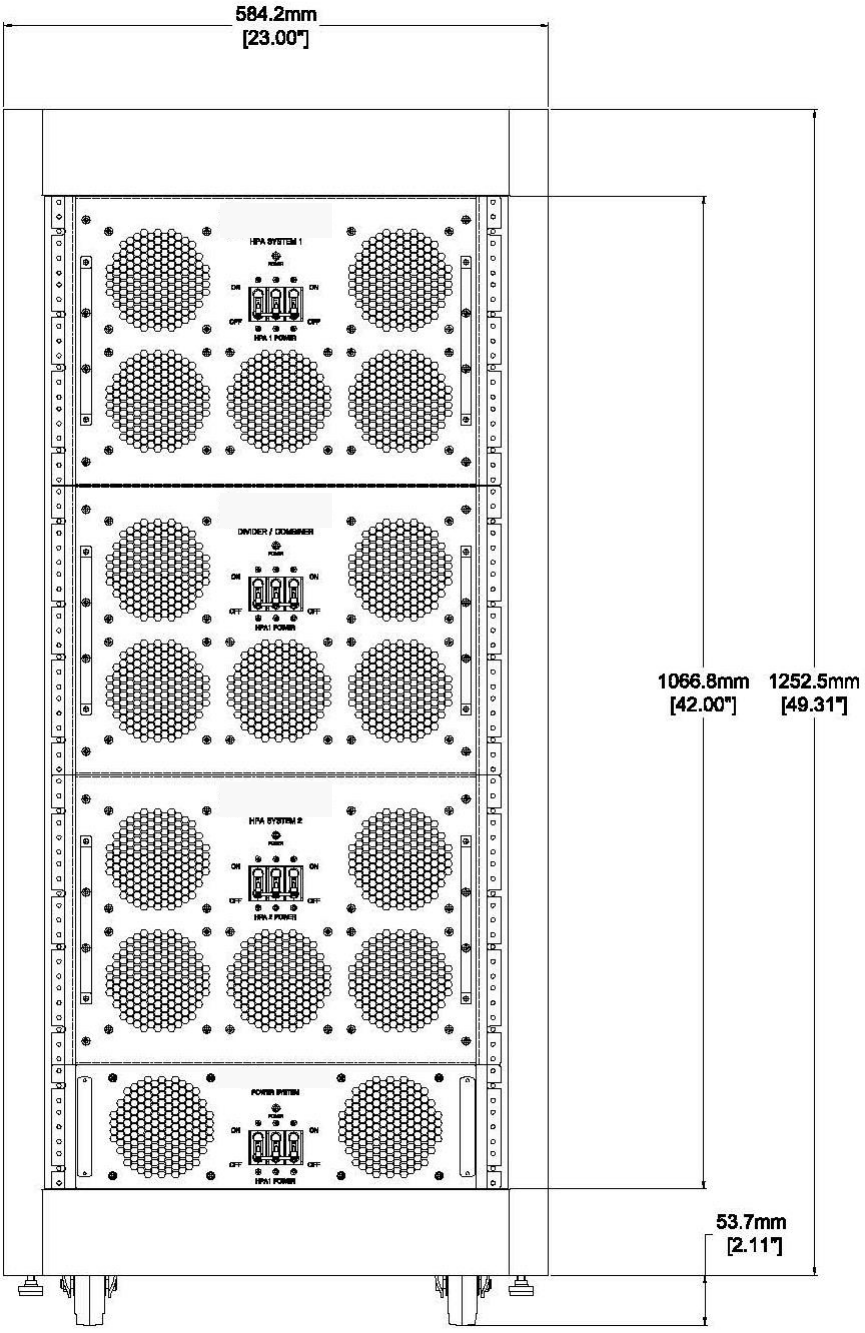
| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 3 x 7U | Installed in a cabinet System |
| Weight | TBD | |
| RF Connectors In/Out | Type-N Female / 7/16 Female | |
| AC Power / Interface | 187-264 VAC Delta (4 wire) Wye compatible | 47-63Hz, 3-phase |
| Cooling | Built in cooling fans | |
| **INCLUDED:** Digital Monitor & Control<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485<br>Optional GPIB Interface | Remote Bluetooth available |

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

# HD32082
# SOLID STATE HIGH POWER AMPLIFIER

**OUTLINE DRAWINGS FOR ILLUSTRATION ONLY**

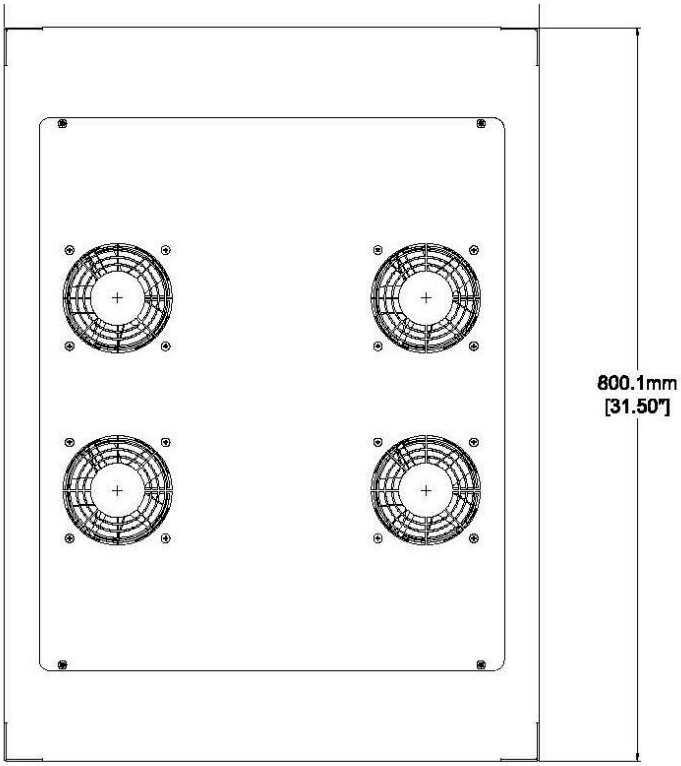
**System Outline - Front**




332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

# HD32082
# SOLID STATE HIGH POWER AMPLIFIER

**System Outline - Top**

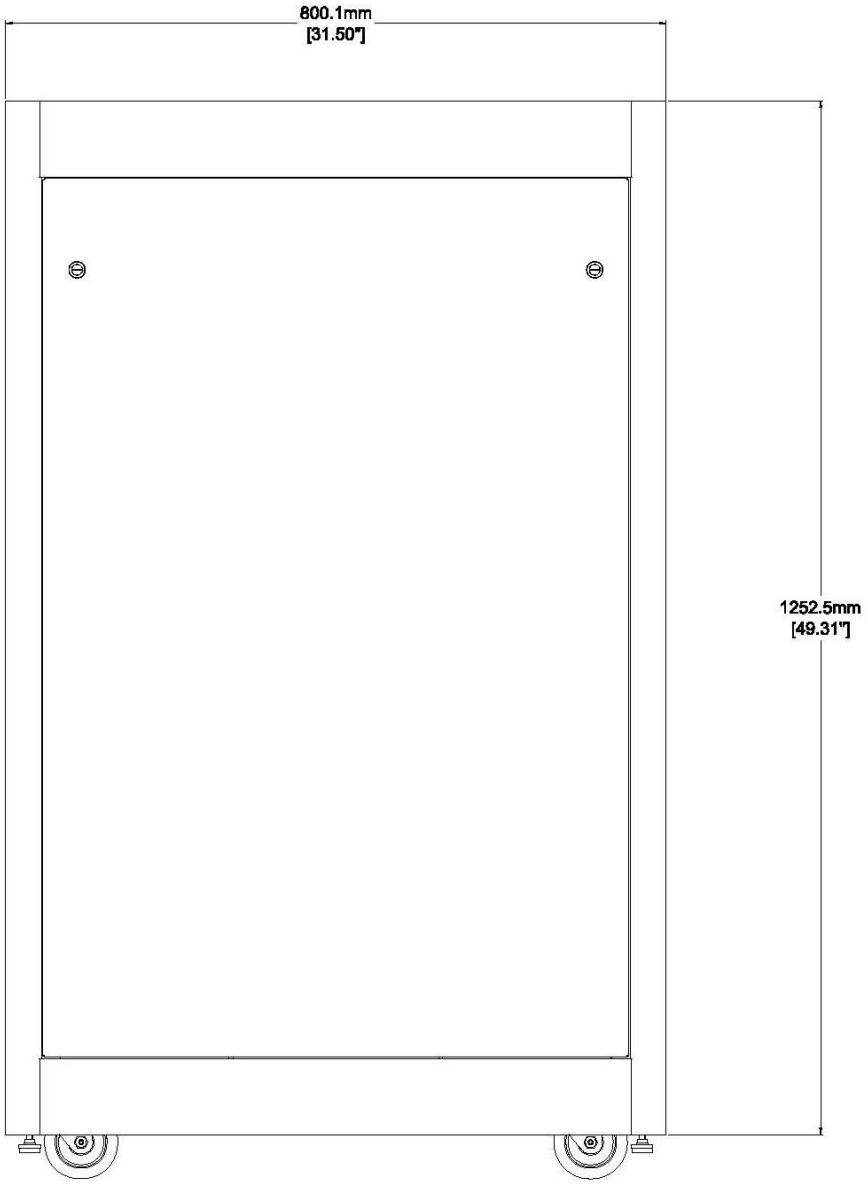



332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

Communications Corp.

# HD32082
# SOLID STATE HIGH POWER AMPLIFIER

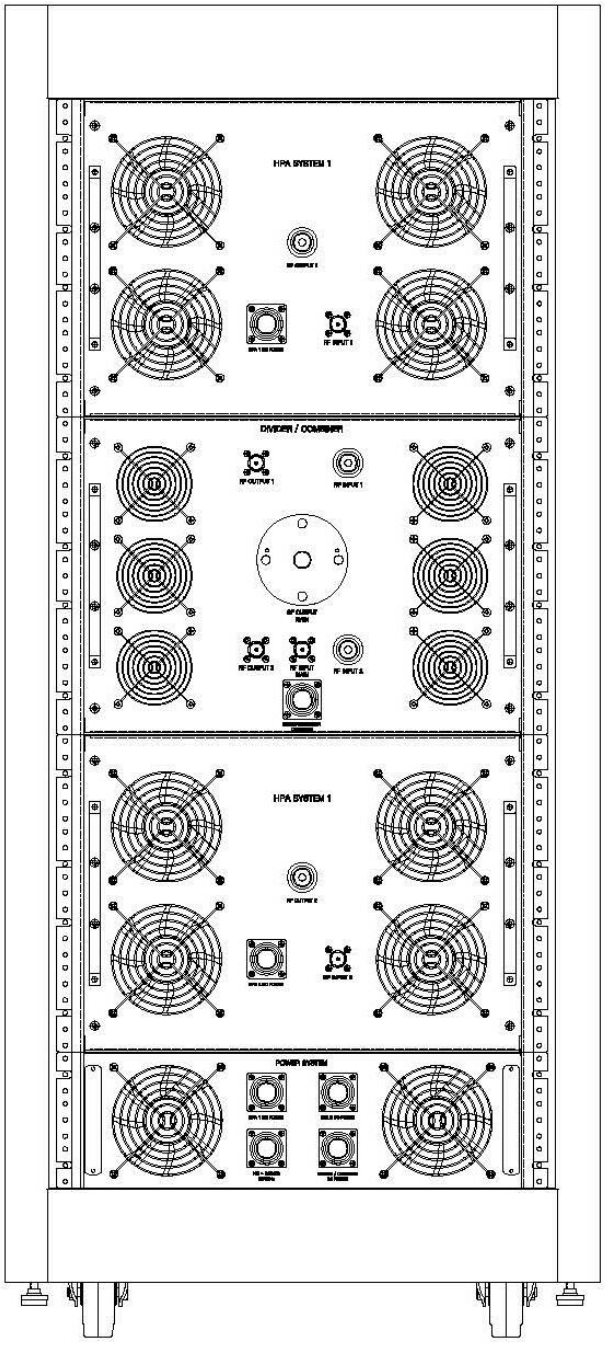
## System Outline - Side




332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

# HD32082
# SOLID STATE HIGH POWER AMPLIFIER

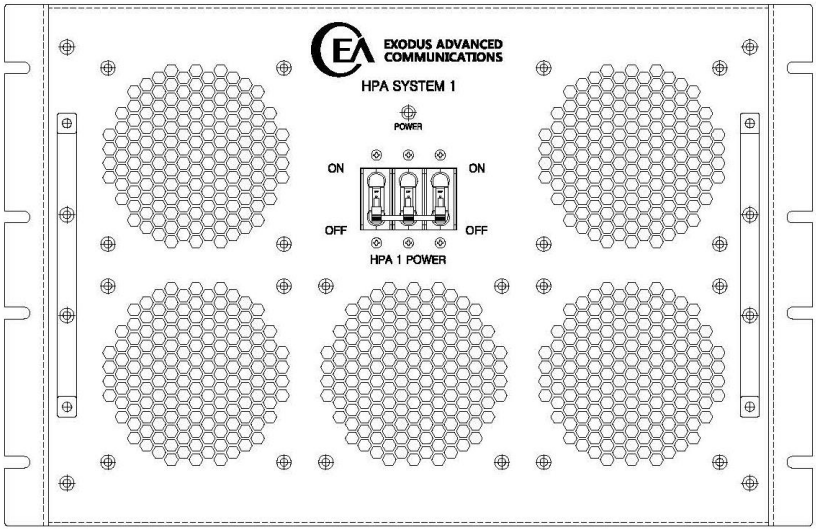
**System Outline - Rear**



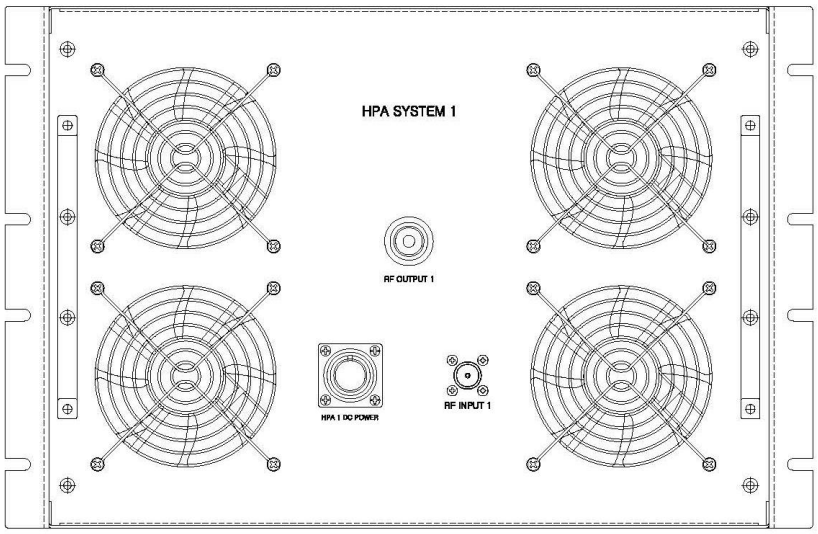

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

# HD32082
# SOLID STATE HIGH POWER AMPLIFIER

**HPA System - Front**



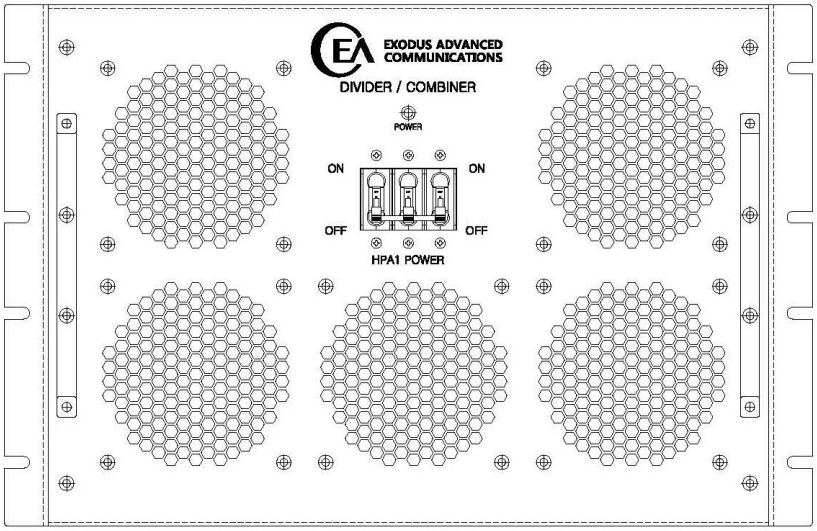

**HPA System - Rear**



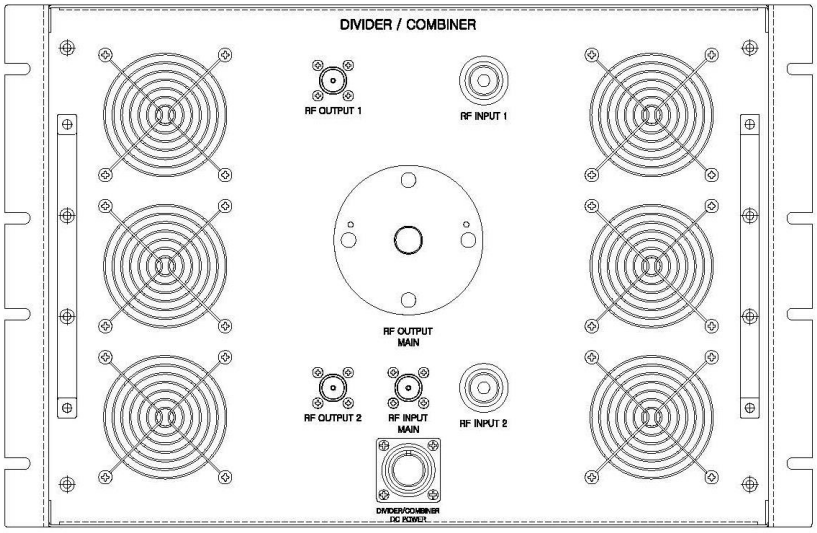

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

# HD32082
# SOLID STATE HIGH POWER AMPLIFIER

## DIVIDER/COMBINER System - Front

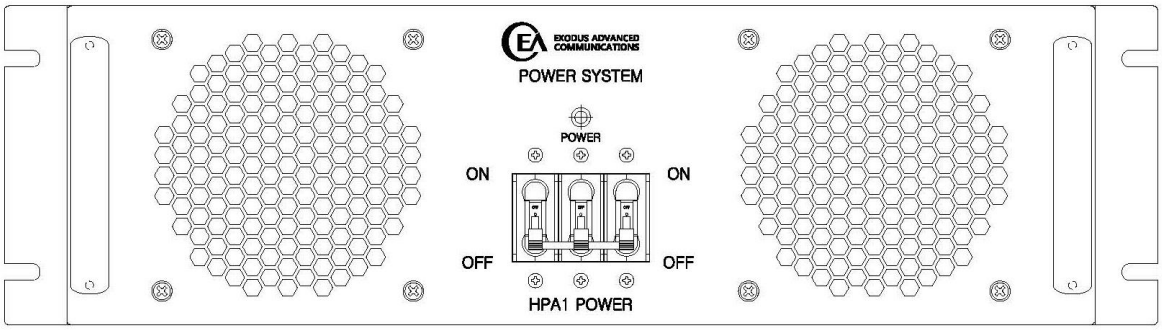



## DIVIDER/COMBINER System - Rear




332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

**POWER System - Front**




- **AMP2048X1 System Outline – POWER System Rear**

