

4RU Rack Mount High Power Pulsed Amplifier 4.0 kW X-Band Chassis



Teledyne Paradise Datacom introduces its line of **GaN High Efficiency** Solid State **High Power Pulsed Amplifiers** for use in radar applications and ship-board environments.

These amplifiers draw upon Teledyne Paradise Datacom's rich history in the design and production of Gallium Nitride (GaN)-based SSPAs.

The amplifier is designed for installation in a standard 19" equipment rack, and features forced-air-cooling with hot-swappable fan trays at the front panel. Each amplifier takes up 4 rack units (4RU).

All connectors are also front-facing for easy accessibility. A status indicator on the front panel illuminates green under normal operation, or red if a fault condition exists.

The **High Power Pulsed Amplifier** may be connected over an Ethernet connection to a PC for remote monitor and control of the unit.

FEATURES

- Operating status indicator on front panel
- All connectors on front panel:
J1 : RF Input (SMA (F))
J2 : RF Output (WR90)
J3 : Pulse Gate Input (BNC (F))
J4 : DC Input (23S MIL)
J5 : Ethernet (RJ45 (F))
- Forced-air convection cooling system with removable fan assemblies
- Optional AC power
- Hot/Cold Standby operating modes for reduced power consumption

Specifications

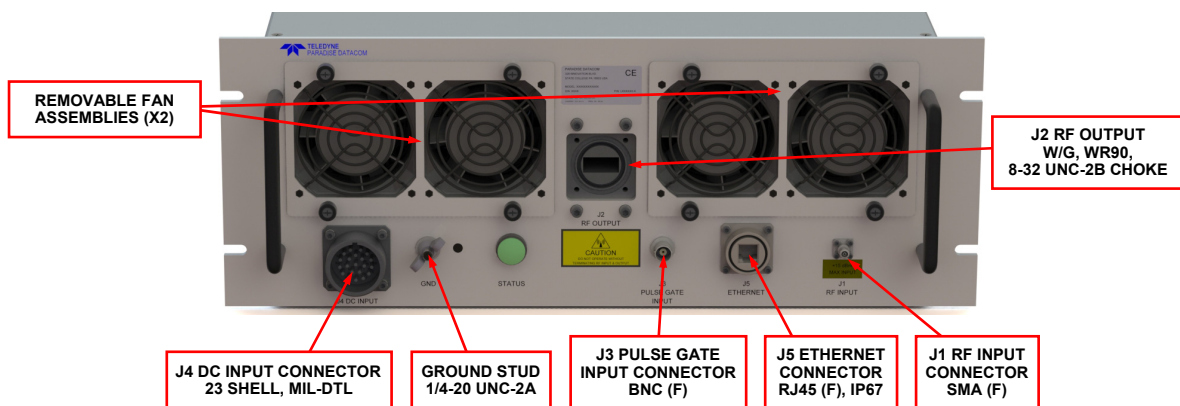
PARAMETER	NOTES	LIMITS	UNITS
Frequency Range		9 to 10	GHz
Output Power, Saturated (Psat)	Typical	66.1 (4074)	dBm (W)
RF Duty Cycle	Maximum	10	%
Pulse Width	Range	1 to 100	µs
VSWR	Maximum	1.5:1	
RF Input		-1 to +1	dBm
Average Power Consumption		≤ 3200	Watts
Voltage	w/ optional AC power	48.0 ± 1% 220	VDC VAC

Environmental Specifications

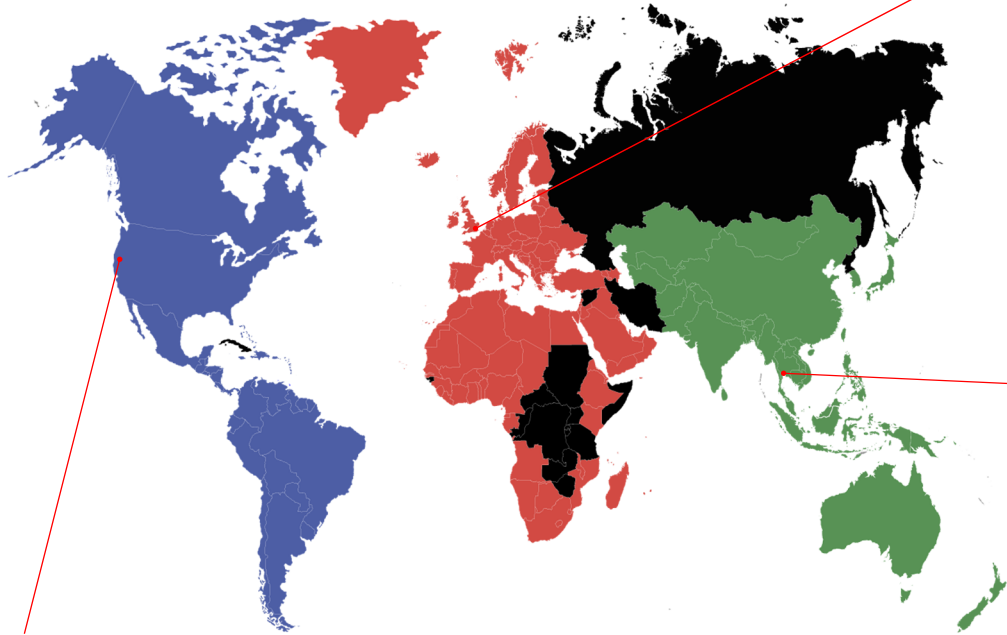
PARAMETER	NOTES	LIMITS	UNITS
Operating Temperature		0 to +40	°C
Operating Humidity		0 to 90	%

Mechanical Specifications

PARAMETER	NOTES	LIMITS	UNITS
Dimensions, 4RU	(H X W X D)	6.968 X 19.000 X 17.000 (177 X 483 X 432)	in (mm)
Weight		51.0 (23.2)	lbs. (kg)
Finish Silkscreen	Powder Coat Gothic	Gray .125 min. PMS 2935	
Connectors	RF Input (J1) RF Output (J2) Pulse Gate Input (J3) DC Prime Power Input (J4) Ethernet Control (J5)	50Ω SMA WR-90 UG136 B/U 50Ω BNC 23 SHELL, MIL-DTL RJ45 (RJF21N)	(F) Choke (F) — —



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Data Security: Teledyne Paradise Datacom amplifiers and controllers do not inherently provide encryption to transmitted data, and have limited security measures to protect it. If the unit will be accessible over the Internet, exercise appropriate data security protocols. Teledyne Paradise Datacom strongly recommends placing the equipment behind a protective Firewall or setting up a VPN link with dual authentication for remote access.

Specifications are subject to change without notice.