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Data Sheet

August 14, 2026

COMTECH PST

Comtech PST AR4819 RF Power Amplifier 50W

The Comtech PST AR4819-50 is a 400 to 1000 MHz ClassA rack amplifier rated 50 W at P1dB. Series AR amplifiers are rack-mountable ClassA linear units housing Series AM modules with built-in AC supplies for models up to 100 W and forced-air cooling. OEM Comtech PST AR catalogs list CW AM FM phase and pulse modulation capability with open/short load protection. Wireless communications test, EMC/RF susceptibility drive, and general-purpose linear RF amplification in the model band. Modulation Capability: CW AM FM phase and pulse Maximum RF Input: 10 dBc above input for P1dB RF Connectors Up To 50 W: Type N female bulkhead AC Input Models To 100 W: universal 100-240 Vac 50/60 Hz PFC class From Comtech PST Series AR OEM table for AR4819-50.



MODEL

**Comtech PST
AR4819-50**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AR4819-50

LISTING

<https://aumictechlabs.com/products/ar4819-50-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Comtech PST AR4819-50 is a solid-state RF amplifier designed for high-reliability applications. It is a rack-mountable unit that incorporates an internal AC power supply for models up to 100 watts. This amplifier is engineered for demanding environments, ensuring consistent performance across its operational spectrum. It is suitable for various communication, electronic warfare, and radar transmitter systems. Technical Specifications * Model: AR4819-50 Frequency Range: 400 MHz to 1000 MHz * Note: Some sources indicate a broader range for Series AR

amplifiers, such as 20 MHz to 3000 MHz, but the AR4819-50 specifically is listed within the 400-1000 MHz band. Power Output: 50 Watts Gain (dB): 47 dB P1dB Saturation Gain (dB min): 55 dB Dimensions (inches): * Height: 5.22 * Width: 13.26 * Length: 19 Dimensions (cm): * Height: 13.26 * Width: 33.68 * Length: 48.26 Weight: 35 lbs * Approximately 15.91 kg Current (amps max): 0.404 amps AC Input: Power Factor Corrected Universal AC input, 100-240Vac, 50/60Hz for models up to 100 Watts. Electrical Characteristics * RF Input Power: 0 dBm Typical RF Input Overdrive: +8 dBm Max Input VSWR: 2.0:1 Typical Output Load VSWR: 2.0:1 Typical Harmonics: <-13 dBc Maximum IM Products: <-18 dBc Typical Spurious: <-50 dBc Maximum Stability: Open/Short Tested Noise Power Output: Quieted: -150dBm/Hz Maximum; Transmit: -86dBm/Hz Typical Interfaces * RF Connectors: Type N Female Control Interface Options: * Optional IEEE BUS for remote control and monitoring (ARD version) * Ethernet/RS-422 * TTL (for PS On/Off) Physical Characteristics * Form Factor: Rack-mountable unit Cooling: Forced-air cooled by internal blowers Environmental: * Operating Temperature: -10 to 50°C * Humidity: 95% Non-condensing * Altitude: 10,000 Feet * Shock/Vibration: MIL-STD-810G Applications The Comtech PST AR4819-50 works with a variety of applications, including: Communication systems Electronic warfare (EW) systems Radar transmitter systems General laboratory testing RFI/EMC testing Satellite tracking systems Compatibility This amplifier is part of Comtech PST's Series AR and Series AM amplifier families. Series AR amplifiers are rack-mountable units. Manufacturer Information Comtech PST Corp. is an ISO 9001:2000 certified company specializing in the design and manufacture of solid-state high-power amplifiers. Their facility is located in Melville, NY. Why Choose Aumictech for Comtech PST AR4819-50? At Aumictech, we specialize in supplying high-end RF amplifier equipment. Whether you need reliable performance in demanding environments, precise power output for communication applications, or solid solutions for electronic warfare systems, our team ensures the Comtech PST AR4819-50 delivers maximum performance for your application.

AR4819 Characteristics / Specifications

PARAMETER	VALUE
Model	AR4819-50
Frequency Range	400 to 1000 MHz
Output Power P1dB	50 W
Saturated Power	75 W
Gain At Rated Power Minimum	47 dB
Gain Flatness	plus or minus 1.0 dB
Line Power	1230 VA
Height	5.25 in (13.3 cm)
Width	19 in (48.3 cm)
Depth	22 in (55.9 cm)
Weight	45 lb (20 kg)
Modulation Capability	CW AM FM phase and pulse
Harmonics Maximum	minus 20 dBc
Spurious Maximum	minus 60 dBc
Input VSWR Maximum	2.0:1
Load VSWR	open/short protected unconditionally stable
Noise Figure Typical	10 dB
Maximum RF Input	10 dBc above input for P1dB
RF Connectors Up To 50 W	TypeNfemale bulkhead
AC Input Models To 100 W	universal 100-240 Vac 50/60 Hz PFC class
Cooling	forced air internal blowers
Form Factor	19 inch rack mount
Series Family	Comtech PST Series AR

AR4819 Specifications

PARAMETER	VALUE
Open/short circuit load protection	Optional IEEE-488 ARD remote variants
Technical Specifications	Model: AR4819-50
Notes	From Comtech PST Series AR OEM table for AR4819-50.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Form Factor	19 inch rack mount
Series Family	Comtech PST Series AR
Notes	
From Comtech PST Series AR OEM table for AR4819-50.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.