

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

COMTECH PST

Comtech PST AR8829 RF Power Amplifier 50W

The Comtech PST AR8829-50 is an 800 to 2000 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. Gain Flatness Class: plus or minus 1.5 dB (AR8829 family) Wireless communications test, EMC/RF susceptibility drive, and general-purpose linear RF amplification in the model band. Gain Flatness Class: plus or minus 1.5 dB (AR8829 family) Modulation Capability: CW AM FM phase and pulse Load VSWR: open/short protected unconditionally stable



MODEL

**Comtech PST
AR8829-50**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AR8829-50

LISTING

<https://aumictechlabs.com/products/ar8829-50-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Comtech PST AR8829-50 is a high-power RF amplifier module designed for demanding RF amplification tasks. It operates within the 800 MHz to 2000 MHz frequency range and delivers a nominal output power of 50 Watts. This amplifier is built for reliability and efficiency, making it suitable for various applications in sectors such as telecommunications, defense, and research. The AR8829-50 is part of Comtech PST's line of solid-state power amplifiers, known for their

advanced technology and solid construction. Some models within the AR series, including potentially the AR8829-50, can be equipped with an optional IEEE 488 (GPIB) interface for remote control and monitoring, denoted by the "ARD" designation. The amplifier can be unconditionally stable into any load VSWR and is protected against open or short circuits. Technical Specifications General Manufacturer: Comtech PST Model: AR8829-50 Product Type: RF Power Amplifier Module Technology: Solid State Electrical Specifications Frequency Range: 800 MHz to 2000 MHz Output Power: 50 Watts P1dB Saturation: Typically 55 dBm (for AR8829-50) Gain at P1dB: Typically 47 dB (for AR8829-50) Current Consumption: Typically 0.404 Amps maximum (for AR8829-50) Physical Specifications Dimensions (H x W x L): * 5.22 inches (13.26 cm) x 19 inches (48.26 cm) x 22 inches (55.88 cm) (for AR8829-50) Weight: Typically 40 lbs (18.19 kg) (for AR8829-50) Interfaces and Control Remote Control: Optional IEEE 488 (GPIB) interface available (ARD version) Power Level Display: Digital display of forward and reverse power levels, output in Watts or dBm Output Level Control: Increment/decrement control for output level Environmental and Operational Cooling: Forced air cooling via internal high-flow fan Stability: Unconditionally stable into any load VSWR Protection: Open or short circuit protected AC Input: Universal AC input (for models up to 100 Watts) Compatibility Rack Mountable: Series AR amplifiers are rack-mountable units Power Supply Integration: Incorporates a built-in universal AC power supply for models up to 100 watts Why Choose Aumictech for Comtech PST AR8829-50? At Aumictech, we specialize in supplying high-end RF power amplifier equipment. Whether you need reliable signal amplification, solid system integration, or precise laboratory testing, our team ensures the Comtech PST AR8829-50 delivers maximum performance for your application.

AR8829 Characteristics / Specifications

PARAMETER	VALUE
Model	AR8829-50
Frequency Range	800 to 2000 MHz
Output Power P1dB	50 W
Saturated Power	55 W
Gain At P1dB Minimum	47 dB
Gain Flatness Class	plus or minus 1.5 dB (AR8829 family)
Height	5.22 in (13.26 cm)
Width	19 in (48.26 cm)
Depth	22 in (55.88 cm)
Weight	40 lb (18.19 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

AR8829 Specifications

PARAMETER	VALUE
Open/short circuit load protection	Optional IEEE-488 ARD remote variants
Technical Specifications	Model: AR8829-50
Notes	From Comtech PST wireless/instrumentation amplifier catalog tables for AR8829-50.

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	
Specifications	
PARAMETER	VALUE
Model	AR8829-50
Frequency Range	800 to 2000 MHz
Output Power P1dB	50 W
Saturated Power	55 W
Gain At P1dB Minimum	47 dB
Gain Flatness Class	plus or minus 1.5 dB (AR8829 family)
Height	5.22 in (13.26 cm)
Width	19 in (48.26 cm)
Depth	22 in (55.88 cm)
Weight	40 lb (18.19 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
Notes	
From Comtech PST wireless/instrumentation amplifier catalog tables for AR8829-50.	

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.