

**Aumictech**

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Data Sheet

August 14, 2026

BOONTON

Boonton 4500A RF Peak Power Meter/Analyzer

Peak pulse and statistical RF power analysis CCDF PDF and crest factor statistical views
Instrument Family: Boonton 4500A peak power analyzer Measurement Type: peak pulse and statistical RF power CCDF PDF and crest factor statistical views Instrument Family: Boonton 4500A peak power analyzer Measurement Type: peak pulse and statistical RF power Sensor Interface: Boonton peak sensor input



MODEL

Boonton 4500A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

4500A

LISTING

<https://aumictechlabs.com/products/4500a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Boonton 4500A RF Peak Power Meter/Analyzer is a sophisticated instrument designed for precise measurement of pulsed and modulated RF signals. It has advanced capabilities for analyzing complex signals found in modern communication systems, radar, and electronic warfare applications. With its dual-channel functionality, statistical analysis features, and extensive triggering options, the 4500A provides engineers and researchers with the tools necessary to characterize and troubleshoot complex RF power parameters. Technical Specifications

Measurement Capabilities: * Signal Types: Pulsed and modulated RF signals, including digital modulation, multiple carriers, complex coding techniques, HDTV, and spread-spectrum signals (e.g., CDMA, WCDMA). Measurement Modes: * Time Domain Analysis: Captures power versus time waveform. * Statistical Analysis: Cumulative Distribution Function (CDF), Probability Density Function (PDF), and complementary cumulative distribution function (CCDF) measurements on

continuously sampled RF signals. * Pulse Parameters: Measures up to 14 pulse characteristics including peak power, average power, pulse width, rise time, fall time, overshoot, pulse period, pulse repetition rate, duty cycle, top amplitude, bottom amplitude, off-time, and delay between pulses or an external trigger event. * CW Power Measurements. Automatic Measurements: 14 automatic measurements are available. Mathematical Functions: Advanced math functions for analyzing differences between channels, assisting in measurements like output stage compression and intermodulation distortion. Performance Specifications: * Frequency Range: 30 MHz to 40 GHz. Dynamic Range: Greater than 60 dB (sensor dependent). Sampling Rate: 1 MSa/sec. Timebase Resolution: 100 ps. Single-Shot Bandwidth: 100 kHz (with 10 samples per pulse at 1 MHz sampling rate). Measurement Update Rate: * Two marker values and their delta available 80 times per second over the bus. * All 14 automatic measurements available 20 times per second. * Data buffer output is from a 501-element data buffer. * Statistical histogram count array is output in two arrays of 4096 values each. Triggering Capabilities: * Triggering Types: Automatic peak-to-peak, delay-by-time, and delay-by-events triggering. Trigger Qualifiers: Option for delay by events trigger qualifier. External Trigger Level: Option for TTL external trigger level. Pre-trigger Information: Digital signal processing permits pre-trigger information capture. Display and User Interface: * Display: 8.4-inch TFT color LCD display (for -L versions) or 9-inch color CRT (for non -L versions). Display Resolution: 640 × 480 pixels (VGA compatible). Waveform Display Resolution: 501 × 281 pixels. Display Modes: Envelope, persistence, and roll mode displays. Data Display: Text view of 15 time and power measurements per channel. User Interface: Familiar user interface. Calibration and Measurement Accuracy: * Calibrator: 1 GHz NIST Traceable Calibrator. Automatic Calibration: User-selectable automatic routine calibrates the sensor and instrument over the full dynamic range. Sensor Data: Calibration factor information and other sensor data are automatically downloaded to the instrument when the sensor is connected. Logarithmic Amplifier: Logarithmic amplifier in the sensor enables measurement and analysis of power changes exceeding 60 dB in a single display range. Interfaces: * Data Ports: GPIB, USB, and LAN. Printer Port: Parallel printer port. Storage: PC-compatible 1.44MB floppy disk drive. Power Sensors: * Compatibility: Compatible with 56xxx and 57xxx series peak power sensors. Sensor Data Storage: Sensor calibration factors, frequency range, power range, sensor type, serial number, and other sensor-dependent information are stored in EEPROM within the peak power sensor. Sensor Cable: Detachable sensor cable with standard length of 5 feet; other lengths (10, 20, 25, 50 feet) are available. Physical and Environmental: * Dimensions: 20 × 16

4500A Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Boonton 4500A peak power analyzer
Measurement Type	peak pulse and statistical RF power
Sensor Interface	Boonton peak sensor input
Remote Interface	GPIB class
Display	graphical analyzer display class
Frequency Coverage	sensor dependent
Peak Power Range	sensor dependent
Video Bandwidth Class	wideband peak detection class
Statistical Analysis	CCDF PDF class
Pulse Capture Depth Class	deep capture class on 4500 family literature
Triggering	internal external and power trigger class
Form Factor	benchtop
AC Powered	yes
Units	dBmWclass
Offset Entry	yes
Save Recall	setups and waveforms class
Channels Class	configuration dependent
Timebase Controls	pulse viewing timebase class
Markers	pulse markers class
Crest Factor	yes
Averaging	selectable
Successor Platform Reference	4500B family shares measurement architecture class
Bandwidth	Class: wideband peak detection class

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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Markers	pulse markers class
Crest Factor	yes
Averaging	selectable
Successor Platform Reference	4500B family shares measurement architecture class
Notes	
Capabilities from Boonton 4500 family peak power analyzer literature. Sensor selection determines frequency and level span; confirm 4500A vs 4500B option set on the faceplate and sensor calibration.	

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