

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

ADVANTEST

Advantest R6243 DC Voltage Current Source / Monitor

Advantest R6243 DC Voltage Current Source / Monitor, Precision source and monitor unit capable of supplying and measuring DC voltage and current simultaneously, ideal for device characterization and automated testing.



MODEL

Advantest R6243

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R6243

LISTING

<https://aumictechlabs.com/products/r6243-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest R6243 is a precision DC voltage and current source/monitor combining simultaneous sourcing and measurement in a single instrument. Built for device characterization, automated testing, and semiconductor evaluation, it delivers accurate DC power with real-time electrical parameter monitoring across four distinct measurement modes. Its flexible architecture supports DC, pulse, and sweep-based testing methodologies, making it essential for R&D labs, production characterization, and advanced component evaluation.

Technical Specifications

Voltage Sourcing & Measurement: 320 mV to 110 V output range with 10 μ V source resolution and 1 μ V measurement resolution.

Current Sourcing & Measurement: 32 μ A to 2 A output range with 1 nA source resolution and 100 pA measurement resolution.

Output Capabilities: Delivers 2 A at up to 32 V; 1 A at up to 64 V; 0.5 A at up to 110 V. Source and measurement accuracy guaranteed for one year at 23 $\pm$ 5°C and $\leq$ 85% relative humidity.

Resolution: 4½-digit source, 5½-digit

measurement. Minimum pulse width: 1 ms.

Key Features

- Four measurement modes: voltage source with current measurement (VSIM), current source with voltage measurement (ISVM), voltage source with voltage measurement (VSVM), and current source with current measurement (ISIM)
- Linear, logarithmic, and random sweep functions for characteristic testing
- Bipolar output with sink capability
- Built-in protection: compliance limiting, oscillation detection, overload and overheat detection
- Synchronous operation supports multi-unit coordination for transistor and FET characterization with simultaneous drain current (I_d) and gate current (I_g) measurement
- Parallel operation: two units combined deliver up to 20 A current capacity
- User-programmable arbitrary waveform generation via sweep functions
- Measurement and source delay functions for precise timing control

Typical Applications

Semiconductor device characterization, transistor and FET testing, production-line parameter verification, R&D electrical evaluation, and automated test systems requiring simultaneous dual-parameter sourcing and measurement.

Compatibility & Integration

GPIB interface enables integration into automated measurement systems. Supports cascaded operation with R6243 and R6244 units for expanded testing capabilities.

Features & description

From manufacturer datasheet

Key Features

Four measurement modes: voltage source with current measurement (VSIM), current source with voltage measurement (ISVM), voltage source with voltage measurement (VSVM), and current source with current measurement (ISIM) Linear, logarithmic, and random sweep functions for characteristic testing Bipolar output with sink capability Built-in protection: compliance limiting, oscillation detection, overload and overheat detection Synchronous operation supports multi-unit coordination for transistor and FET characterization with simultaneous drain current (I_d) and gate current (I_g) measurement Parallel operation: two units combined deliver up to 20 A current capacity User-programmable arbitrary waveform generation via sweep functions Measurement and source delay functions for precise timing control Typical Applications Semiconductor device characterization, transistor and FET testing, production-line parameter verification, R&D electrical evaluation, and automated test systems requiring simultaneous dual-parameter sourcing and measurement. Compatibility & Integration GPIB interface enables integration into automated measurement systems. Supports cascaded operation with R6243 and R6244 units for expanded testing capabilities.

Advantest R6243 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Advantest R6243. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values [Request Calibration](#) → [Request Repair Quote](#) →

Advantest R6243 price

This Advantest R6243 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Advantest R6243 calibration cost

NIST-traceable calibration for the Advantest R6243 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Unit notes

The Advantest R6243 is a precision DC voltage and current source/monitor combining simultaneous sourcing and measurement in a single instrument. Built for device characterization, automated testing, and semiconductor evaluation, it delivers accurate DC power with real-time electrical parameter monitoring across four distinct measurement modes. Its flexible architecture supports DC, pulse, and sweep-based testing methodologies, making it essential for R&D labs, production characterization, and advanced component evaluation. Technical Specifications Voltage Sourcing & Measurement: 320 mV to

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R6243 Specifications

PARAMETER	VALUE
Voltage / Current Range	32 μ A to 2 A, 320 mV to 110 V

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.

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Typical Applications Semiconductor device characterization, transistor and FET testing, production-line parameter verification, R&D electrical evaluation, and automated test systems requiring simultaneous dual-parameter sourcing and measurement.

Compatibility & Integration GPIB interface enables integration into automated measurement systems. Supports cascaded operation with R6243 and R6244 units for expanded testing capabilities.

R6243 Specifications

PARAMETER	VALUE
Voltage / Current Range	32 µA to 2 A, 320 mV to 110 V

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Key Features

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Linear, logarithmic, and random sweep functions for characteristic testing

Bipolar output with sink capability

Built-in protection: compliance limiting, oscillation detection, overload and overheat detection

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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
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<https://aumictechlabs.com>

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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.