

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

ASTRONICS / EADS / RACAL

Astronics / EADS / Racal 2251A VXI Counter Timer

The Astronics/EADS/Racal 2251A is a single-slot, C-size VXI counter timer delivering high-resolution timing and frequency measurements for VXIbus-compatible systems.

Microprocessor-controlled and remotely operated via VXIbus, this instrument provides twelve automatic measurement functions with resolution down to 1 ns for time intervals and 10 nHz at 10 Hz. The 2251A synchronizes to the VXIbus CLK10 system clock, minimizing timebase error in multi-instrument test configurations. Aumictech offers NIST-traceable calibration and repair for the Astronics / EADS / Racal 2251A. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Astronics / EADS / Racal 2251A is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units. NIST-traceable calibration for the Astronics / EADS / Racal 2251A 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 →

**MODEL****Astronics / EADS /
Racal 2251A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****2251A****LISTING**<https://aumictechlabs.com/products/2251a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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measurement functions with resolution down to 1 ns for time intervals and 10 nHz at 10 Hz. The 2251A synchronizes to the VXIbus CLK10 system clock, minimizing timebase error in multi-instrument test configurations. Technical Specifications Frequency measurement spans DC to 200 MHz on Channel A and DC to 160 MHz on Channel B, with optional Channel C (Option 41) extending to 40 MHz–1.3 GHz. Resolution reaches 1 Hz at 1 GHz within one-second gate times and 10 nHz at 10 Hz. Period measurement begins at 5 ns (Channel A) and 6.25 ns (Channel B). Time interval measurement supports separate and common modes with ranges from 200 μ s to 800 ms or 200 μ s to 99.999 s; single-shot resolution is 1 ns, averaging mode achieves 100 ps. Additional measurement functions include pulse width (5 ns to 20 ms), rise/fall time on Channel A, frequency ratio (A by B, or C/B with Option 41), phase measurement (0.10 to 360 degrees), totalize modes (manual, pulse, cycle, timed), peak signal amplitude, and DVM (MAX, MIN, DC voltages). Math mode supports $[(\text{Reading} - X) \times Y] / Z$ calculations. Key Features Input impedance programmable to $\times 1$ or $\times 10$ attenuation Voltage range ± 5.1 V (standard); ± 42 V for high-voltage measurement Sensitivity <100 MHz: 25 mVrms (5 ns pulse, $\times 1$ attenuation) Channel C 50 Ω impedance for microwave applications VXIbus Specification Revision 1.4 compliance Accesses CLK10, Analog SUMBUS, and TTLTRG signal lines Typical Applications Phase measurement, frequency ratio analysis, pulse characterization, time-interval precision measurement, and integrated VXI rack-based automated test systems. Compatibility & Integration Single-slot C-size module; remote control only via VXIbus command set. No local front-panel control.

Features & description

From manufacturer datasheet

Key Features

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Specifications

Parameter	Value
Frequency Range	DC to 200 MHz (Channel A) 40 MHz to 1.3 GHz (Channel C, Option 41)
Voltage / Current Range	± 5.1 V (standard)

Astronics / EADS / Racal 2251A — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Astronics / EADS / Racal 2251A. 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](#) →

Astronics / EADS / Racal 2251A price

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Astronics / EADS / Racal 2251A calibration cost

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Unit notes

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2251A Specifications

PARAMETER	VALUE
Frequency Range	DC to 200 MHz (Channel A)
40 MHz to 1.3 GHz (Channel C, Option 41) Voltage / Current Range	±5.1 V (standard)

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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2251A Specifications

PARAMETER	VALUE
Frequency Range	DC to 200 MHz (Channel A)
40 MHz to 1.3 GHz (Channel C, Option 41) Voltage / Current Range	±5.1 V (standard)

Key Features

Input impedance programmable to ×1 or ×10 attenuation

Voltage range ±5.1 V (standard); ±42 V for high-voltage measurement

Sensitivity <100 MHz: 25 mVrms (5 ns pulse, ×1 attenuation)

Channel C 50 Ω impedance for microwave applications

VXIbus Specification Revision 1.4 compliance

Accesses CLK10, Analog SUMBUS, and TTLTRG signal lines

Specifications

Parameter	Value
Frequency Range	DC to 200 MHz (Channel A) 40 MHz to 1.3 GHz (Channel C, Option 41) Voltage / Current Range
	±5.1 V (standard)

Astronics / EADS / Racal 2251A – Repair & Calibration Service

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Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

Request Calibration → Request Repair Quote →

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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
sales@aumictech.com · +1 (484) 841-9341
<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.