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Data Sheet

August 2, 2026

ASTRONICS / EADS / RACAL

Astronics / EADS / Racal 2461-Cd Universal Counter Timer VXI Card

Astronics / EADS / Racal 2461-Cd Universal Counter Timer VXI Card The Astronics / EADS / Racal 2461-Cd (2461Cd) is a single-slot C-size VXIbus universal counter/timer in the Racal Instruments 2461 family. The 2461 series provides high-performance frequency and time-interval measurements (about 200 MHz class on Channel 1/2 for later 2461A replacements). Typical automatic functions across the family include frequency, period, time interval, rise/fall, pulse width, duty cycle, ratio, totalize, phase, and DVM (max/min/DC). Suffix letters (Cd, Ce, Cf, and related specials) denote oscillator and option configurations; Cd is a common no-oscillator listing class. The Astronics 2461A is the functional replacement for obsolete 2461 variants including Cd/Ce/S configurations. Confirm faceplate 2461-Cd marking and installed timebase option. The Astronics / EADS / Racal 2461-Cd (2461Cd) is a single-slot C-size VXIbus universal counter/timer in the Racal Instruments 2461 family. The 2461 series provides high-performance frequency and time-interval measurements (about 200 MHz class on Channel 1/2 for later 2461A replacements). Typical automatic functions across the family include frequency, period, time interval, rise/fall, pulse width, duty cycle, ratio, totalize, phase, and DVM (max/min/DC). Suffix letters (Cd, Ce, Cf, and related specials) denote oscillator and option configurations; Cd is a common



MODEL

**Astronics / EADS /
Racal 2461-Cd**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

2461-Cd

LISTING

[https://aumictechlabs.c
om/products/2461-cd-
2/](https://aumictechlabs.com/products/2461-cd-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Astronics/EADS/Racal 2461-Cd is a C-size VXI universal counter timer card delivering precision frequency, timing, and voltage measurements for automated test equipment, calibration labs, and R&D environments. This module functions as a direct replacement for legacy Racal 2461 variants and Keysight E1420A/B models. The -Cd configuration omits an internal oscillator, requiring external timebase sourcing.

Technical Specifications

Measurement Performance

Frequency measurement to 200 MHz with 9–10 digit/second resolution
Time interval: 1 ns single-shot resolution; 100 ps average mode resolution
Pulse characterization: automatic rise time, fall time, and pulse width measurement
Phase measurement: automatic phase detection supported
DVM voltage measurement: ± 5.1 V standard range; ± 42 – 51 V with $\times 10$ attenuation; ± 200 V with $\times 40$ attenuation (2461A)
Trigger resolution: 2.5 mV

Key Features

Automatic measurement functions: frequency, period, time interval, rise/fall time, pulse width, duty cycle, frequency ratio, totalize, phase, and DVM
Nine-mode arming capability with selectable sources from external inputs or VXI TTL trigger lines
Programmable measurement timeout for systems with intermittent or absent input signals
Internal storage capacity: 14,000 readings
Per-channel 50 kHz low-pass filters with selectable hysteresis for noise mitigation
Adjustable sensitivity for low-level and noisy signal optimization
Time Error Correction (TEC) and reciprocity techniques minimize measurement time without performance loss

Typical Applications

Frequency and timing validation in production test; component characterization in R&D; precision voltage and phase measurements in calibration workflows; automated multifunction parameter acquisition in instrument racks.

Compatibility & Integration

VXIbus C-size module. Functional replacement for Racal 2461 (Cd, Ce, S-2276B, S-2391B) and Keysight E1420A/B. Related -Ce variant includes TCXO; -Cf includes oven-controlled crystal oscillator.

Features & description

From manufacturer datasheet

Features

- Universal counter/timer VXI card (2461 family) • About 200 MHz class frequency measurement (family / 2461A) • Multiple automatic measurement functions (frequency, TI, pulse, phase, etc.) • Single-slot C-size VXI • Option suffix Cd (confirm oscillator/timebase on unit) • Related: 2461-Ce, 2461-Cf; successor 2461A-Cd / 2461A-Ce

2461CD Characteristics / Specifications

PARAMETER	VALUE
Model	2461-Cd (2461Cd)
Manufacturer	Astronics Test Systems / EADS / Racal Instruments
Instrument Type	Universal counter / frequency & time interval VXI module
Form Factor	Single-slot C-size VXIbus
Frequency Range (family / 2461A class)	Channel 1/2 about 600 uHz to 200 MHz
Time Interval Resolution (family / 2461A)	about 1 ns single-shot; about 100 ps average
Functions (family)	Frequency, Period, TI, TI Delay, Rise/Fall, Pulse Width, Duty Cycle, Ratio, Totalize, Phase, DVM
Related Successor	2461A (replaces 2461 Cd/Ce/S variants) Standard Operating Conditions Install incompatible VXI mainframe. Set input ranges and trigger levels per signal amplitude. Use appropriate timebase option for required accuracy. Operational Notes
Related	2461-Ce, 2461-Cf; successor 2461A-Cd / 2461A-Ce

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.

performance frequency and time-interval measurements (about 200 MHz class on Channel 1/2 for later 2461A replacements). Typical automatic functions across the family include frequency, period, time interval, rise/fall, pulse width, duty cycle, ratio, totalize, phase, and DVM (max/min/DC). Suffix letters (Cd, Ce, Cf, and related specials) denote oscillator and option configurations; Cd is a common no-oscillator listing class. The Astronics 2461A is the functional replacement for obsolete 2461 variants including Cd/Ce/S configurations. Confirm faceplate 2461-Cd marking and installed timebase option.

Applications

VXI frequency and time-interval measurement; pulse characterization; automated counter/timer functions in ATE; legacy 2461-program replacement planning with 2461A.

Key Features

- Universal counter/timer VXI card (2461 family)
- About 200 MHz class frequency measurement (family / 2461A)
- Multiple automatic measurement functions (frequency, TI, pulse, phase, etc.)
- Single-slot C-size VXI
- Option suffix Cd (confirm oscillator/timebase on unit)
- Related: 2461-Ce, 2461-Cf; successor 2461A-Cd / 2461A-Ce

Technical Specifications

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Related Successor	2461A (replaces 2461 Cd/Ce/S variants)

Standard Operating Conditions

Install incompatible VXI mainframe. Set input ranges and trigger levels per signal amplitude. Use appropriate timebase option for required accuracy.

Operational Notes

User title is 2461-Cd; catalog may list 2461-Ce or 2461-Cf nearby-match Cd on the faceplate. Do not invent Cd-specific TCXO claims without verification on the unit.

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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Generated August 2, 2026

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