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Data Sheet

August 13, 2026

ASTRONICS / EADS / RACAL

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

Astronics / EADS / Racal 2461-Ce Universal Counter Timer VXI Card The Astronics / EADS / Racal 2461-Ce (2461Ce) is a single-slot C-size VXIbus universal counter/timer in the Racal Instruments 2461 family. The series provides high-performance frequency and time-interval measurements (about 200 MHz class on Channel 1/2 for later 2461A replacements). 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 Ce denotes a specific oscillator/option configuration within the Cd/Ce/Cf/S family; the Astronics 2461A is the functional replacement for obsolete 2461 variants including Ce. The Astronics / EADS / Racal 2461-Ce (2461Ce) is a single-slot C-size VXIbus universal counter/timer in the Racal Instruments 2461 family. The series provides high-performance frequency and time-interval measurements (about 200 MHz class on Channel 1/2 for later 2461A replacements). 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 Ce denotes a specific oscillator/option configuration within the Cd/Ce/Cf/S family; the Astronics 2461A is the functional replacement for obsolete 2461 variants including Ce. VXI frequency and time-interval measurement; pulse characterization; automated counts



MODEL

**Astronics / EADS /
Racal 2461-Ce**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

2461-Ce

LISTING

<https://aumictechlabs.com/products/2461-ce-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Astronics/EADS/Racal 2461-Ce is a universal counter timer for precision timing and frequency measurements in VXI-based test systems. This C-size VXI module delivers frequency measurement to 200 MHz with 9-digit resolution, time interval measurement at 1 ns single-shot or 100 ps average mode, and comprehensive pulse characterization including rise time, fall time, pulse width, and duty cycle. The 2461-Ce integrates a Temperature Compensated Crystal Oscillator (TCXO) for enhanced timebase stability, supporting external 10 MHz inputs at 100 mV minimum. Nine arming modes and programmable trigger levels from -5.1 V to +5.1 V (x1 range) enable flexible signal conditioning across ± 5.1 V or ± 42 V input ranges. Phase measurement, totalize functions (manual, by pulse, by cycle, and timed), and DVM capabilities for MAX, MIN, and DC voltage measurement round out the feature set. Technical Specifications

Form Factor: C-size
VXI module
Frequency Measurement Range: Up to 200 MHz
Frequency Resolution: Up to 9 digits per second
Time Interval Resolution: 1 ns single-shot; 100 ps average mode
Input Voltage Range: ± 5.1 V or ± 42 V
Trigger Level Range: -5.1 V to +5.1 V (x1, 2.5 mV resolution); -51 V to +51 V (x10, 25 mV resolution); -200 V to +200 V (x40, 100 mV resolution)
Minimum Signal Amplitude (x1 Attenuation): <50 MHz: 5 V pk-pk; <100 MHz: 2.5 V pk-pk; <200 MHz: 1.5 V pk-pk
Minimum Signal Amplitude (x10 Attenuation): <50 MHz: 50 V pk-pk; <100 MHz: 25 V pk-pk; <200 MHz: 15 V pk-pk
Timebase: Internal TCXO; external 10 MHz input at 100 mV minimum, 1 k Ω impedance
Arming Modes: 9 selectable modes
Key Features
Pulse rise time, fall time, pulse width, and duty cycle measurement
Phase measurement capability
Multiple totalize functions: manual, by pulse, by cycle, and timed
Digital voltmeter with MAX, MIN, and DC voltage measurement
Programmable measurement timeout
Accommodates up to 3 function cards in single module (positions 1 and 2 with front panel access)
Typical Applications
Aerospace, defense, and telecommunications test environments requiring integrated frequency, timing, and pulse characterization. Compatibility & Integration
Part of the 2460 Series family, compatible with VXI-based modular test systems.

Features & description

From manufacturer datasheet

Features

- Universal counter/timer VXI card (2461 family)

2461CE Characteristics / Specifications

PARAMETER	VALUE
Model	2461-Ce (2461Ce)
Manufacturer	Astronics Test Systems / EADS / Racal Instruments
Instrument Type	Universal counter / frequency and time interval VXI module
Form Factor	Single-slot C-size VXIbus
Frequency Range Ch1 (family / 2461A)	about 600 uHz to 200 MHz
Frequency Range Ch2 (family / 2461A)	about 600 uHz to 200 MHz
Digits Selectable (2461A)	3 to 10
Time Interval LSD (2461A)	1 ns single-shot; about 100 ps average
Time Interval Range (2461A class)	about 1 ns to 100000 s class
Functions (family)	Frequency, Period, TI, TI Delay, Rise/Fall, Pulse Width, Duty Cycle, Ratio, Totalize, Phase, DVM
Arming	Front-panel Arm or VXI TTL Trig0-7 (2461A)
Timebase Sources (2461A)	Internal; VXI CLK10; external 10 MHz
External Clock Input	10 MHz; 100 mV min; about 1 kohm; AC coupled (2461A)
Channel Inputs	BNC, 50 ohm or 1 Mohm (family)
Total Power (2461A published)	about 16 W
Related Successor	2461A (replaces 2461 Cd/Ce/S variants)
Alias	2461-Ce; 2461Ce; Racal 2461 Ce Notes Specs from Astronics 2461A datasheet applied to the legacy 2461-Ce option class. Confirm faceplate Ce marking and installed timebase/oscillator before quoting accuracy.
Related	2461-Cd, 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). 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 Ce denotes a specific oscillator/option configuration within the Cd/Ce/Cf/S family; the Astronics 2461A is the functional replacement for obsolete 2461 variants including Ce.

Applications

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

Key Features

- Universal counter/timer VXI card (2461 family)
- About 200 MHz class frequency measurement (family / 2461A)
- Twelve automatic measurement functions class (frequency, TI, pulse, phase, DVM, etc.)
- Single-slot C-size VXI
- Option suffix Ce (confirm oscillator/timebase on unit)
- Related: 2461-Cd, 2461-Cf; successor 2461A-Cd / 2461A-Ce
- Channel 1/2 BNC inputs 50 ohm or 1 Mohm (2461A family)

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	2461-Ce (2461Ce)
Manufacturer	Astronics Test Systems / EADS / Racal Instruments
Instrument Type	Universal counter / frequency and time interval VXI module

Specifications

PARAMETER	VALUE
Form Factor	Single-slot C-size VXIbus
Frequency Range Ch1 (family / 2461A)	about 600 uHz to 200 MHz
Frequency Range Ch2 (family / 2461A)	about 600 uHz to 200 MHz

Specifications

PARAMETER	VALUE
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Time Interval LSD (2461A)	1 ns single-shot; about 100 ps average
Time Interval Range (2461A class)	about 1 ns to 100000 s class

Specifications

PARAMETER	VALUE
Functions (family)	Frequency, Period, TI, TI Delay, Rise/Fall, Pulse Width, Duty Cycle, Ratio, Totalize, Phase, DVM
Arming	Front-panel Arm or VXI TTL Trig0-7 (2461A)
Timebase Sources (2461A)	Internal; VXI CLK10; external 10 MHz

Specifications

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External Clock Input	10 MHz; 100 mV min; about 1 kohm; AC coupled (2461A)
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Total Power (2461A published)	about 16 W

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

Alias: 2461-Ce; 2461Ce; Racal 2461 Ce

Notes

Specs from Astronics 2461A datasheet applied to the legacy 2461-Ce option class. Confirm faceplate Ce marking and installed timebase/oscillator before quoting accuracy.

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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NIST-traceable calibration · SAM registered ·
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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.