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Data Sheet

August 13, 2026

ASTRONICS / C&H TECHNOLOGIES

Astronics / C&H Technologies VX491C Counter/Clock VXI Module

Astronics / C&H Technologies VX491C Counter/Clock VXI Module The Astronics / C&H Technologies VX491C is a single-slot register-based C-size VXIbus counter/clock module for precise timing in data acquisition and ATE. It provides a stable 10 MHz master clock (optional on-board OCXO configuration, e.g. P/N 11026845-0001), four derived clock outputs, six 32-bit counters, and a time-of-day clock. The module generates precise triggers and pulse stimuli and performs pulse count and time-period measurements. VXI system master clock and derived timing distribution; pulse counting and period measurement; precise triggering of DAQ instruments; time-of-day timestamping in automated test. The Astronics / C&H Technologies VX491C is a single-slot register-based C-size VXIbus counter/clock module for precise timing in data acquisition and ATE. It provides a stable 10 MHz master clock (optional on-board OCXO configuration, e.g. P/N 11026845-0001), four derived clock outputs, six 32-bit counters, and a time-of-day clock. The module generates precise triggers and pulse stimuli and performs pulse count and time-period measurements. VXI system master clock and derived timing distribution; pulse counting and period measurement; precise triggering of DAQ instruments; time-of-day timestamping in automated test.



MODEL

Astronics / C&H Technologies VX491C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

VX491C

LISTING

<https://aumictechlabs.com/products/vx491c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Astronics / C&H Technologies VX491C is a single-slot C-size VXI counter/clock module engineered for precise timing, pulse generation, and event measurement in data acquisition and test systems. It delivers a stable 10 MHz master clock source with multiple derived outputs, six 32-bit counters, and integrated time-of-day clock functionality. The module operates within VXIbus-compliant mainframes and supports flexible triggering, programmable interrupts, and SCPI-compatible control.

Technical Specifications

Module Type: Counter/Clock VXI Module, C-size, single-slot VXIbus Compliance: ANSI/IEEE Std. 1014-1987, IEC 821, IEC 822, VXIbus Rev 1.4

Master Clock: On-board oven-controlled 10 MHz oscillator

Clock Outputs: Four derived outputs from 10 MHz master clock

Counters: Six 32-bit counters

Time-of-Day Clock: Included

Connectors: Standard VXIbus backplane (P1 and P2)

Form Factor: 23.3 × 34 cm (C-size)

Key Features

- Oven-controlled 10 MHz master oscillator ensures timing stability
- Multiple clock outputs derived from master reference frequency
- Programmable interrupts on master clock drop-out, counter roll-over, match conditions, periodic intervals, and set time-of-day events
- Flexible trigger sourcing from front panel or VXI Bus
- 32-bit counter resolution enables high-resolution event and interval measurement
- Integrated time-of-day tracking for absolute time reference

Typical Applications

- Precise timing and clock generation for data acquisition systems
- Pulse stimulus generation with programmable characteristics
- Pulse counting and time period measurement
- Trigger signal generation for synchronized test equipment
- Event timing in automated test environments

Compatibility & Integration

Designed for integration into VXIbus-compliant mainframes and systems. The module operates with VXIplug&play and SCPI standard control protocols, enabling seamless integration into modular instrumentation architectures. Power is supplied by the VXIbus mainframe via P1 and P2 connectors; cooling is provided by mainframe airflow management.

Features & description

From manufacturer datasheet

Features

- Single-slot register-based C-size VXI

VX491C Characteristics / Specifications

PARAMETER	VALUE
Model	VX491C
Manufacturer	Astronics / C&H Technologies
Instrument Type	Counter / Clock VXI Module
Form Factor	C-size, single-slot, register-based VXIbus
Master Clock	10 MHz (stable master reference)
OCXO Option	On-board oven-controlled 10 MHz oscillator (P/N class 11026845-0001)
Derived Clock Outputs	4 outputs from 10 MHz master
Counter Count	6 counters
Counter Width	32-bit
Functions	Pulse count; time period measurement; trigger/pulse stimuli
Interrupts	Programmable interrupts
Bus Interface	Register-based VXI
NSN	5998-01-441-3633 (family listings)
Alias	VX491C; VX-491C; VX 491C
Typical Ship Weight Class	about 7 lb (reseller listings)
Role	Precise timing / clock for DAQ and test
Related Family	C&H VXI timing and carrier modules Notes Specs from C&H / Astronics VX491C product descriptions and reseller configuration tables. Confirm OCXO vs non-OCXO faceplate / P/N before quoting stability.

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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Specifications	
PARAMETER	VALUE
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Counter Width	32-bit
Time-of-Day Clock: Yes	
Specifications	
PARAMETER	VALUE
Functions	Pulse count; time period measurement; trigger/pulse stimuli
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Specifications	
PARAMETER	VALUE
NSN	5998-01-441-3633 (family listings)
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Typical Ship Weight Class

about 7 lb (reseller listings)

Role: Precise timing / clock for DAQ and test

Related Family: C&H VXI timing and carrier modules

Notes

Specs from C&H / Astronics VX491C product descriptions and reseller configuration tables. Confirm OCXO vs non-OCXO faceplate / P/N before quoting stability.

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.