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Data Sheet

August 14, 2026

AMETEK / VTI INSTRUMENTS / VXI TECHNOLOGY

Ametek / VTI Instruments / VXI Technology CT-100C Portable Six-Slot VXIbus Mainframe

The Ametek/VTI Instruments/VXI Technology CT-100C is a portable six-slot VXIbus mainframe designed for versatile testing and measurement applications. This mainframe provides a solid and reliable platform for VXI modules, ensuring high performance and easy integration in various testing environments. Its compact design and portability make it ideal for both laboratory and field use.



MODEL

**Ametek / VTI
Instruments / VXI
Technology CT-
100C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CT-100C

LISTING

<https://aumictechlabs.com/products/ct-100c-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ametek VTI Instruments CT-100C is a portable six-slot VXIbus mainframe conforming to VXIbus Specification Revision 2.0. Designed for laboratory and field testing, this C-size chassis provides five instrument slots plus dedicated Slot 0 for the VXIbus Resource Manager. The unit integrates a 500 W auto-ranging power supply, pressurized cooling system, and monolithic backplane with automatic solid-state daisy-chaining for VME interrupt and bus grant signals. Technical Specifications VXIbus Compliance: Revision 2.0 Slot Configuration: Six total

slots (five for VXIbus instruments, one for Resource Manager) Power Supply: 500 W @ 40 °C; auto-ranging input 100–240 V ac, 47–63 Hz Power Rails: +5V, +12V, +24V, +5V Standby (1 A maximum), –5.2V, –12V, –24V, –2V Cooling: Pressurized airflow system; 80 W/slot maximum for 10 °C rise Operating Temperature: 0 °C to 55 °C Dimensions: 15 inches (W) × 8.2 inches (H) × 21 inches (D) Weight: 25 lbsKey Features Auto-ranging power supplies with short-circuit, over-voltage, reverse-voltage, and thermal-shutdown protection UL, CSA, and TUV approved Front panel monitoring display for all supply lines and fan status Rear panel open-collector monitoring of power supplies, AC input, and fans Monolithic, multi-layer backplane eliminates manual jumper configuration Removable outer cover for module access during development and troubleshooting Monitored fan voltagePortability & Installation Bench-top, rack-mount, and portable configurations supported. Optional rackmount kit enables flush or recessed (4-inch) mounting with latched door that can be modified for external connectors and indicators.Compatibility & Integration Fully compatible with VXIbus instruments including VMIP modules such as DMMs, waveform generators, and digitizers. Rear panel +5V Standby connector accepts user-supplied standby power routed directly to the backplane.

CT100C Characteristics / Specifications

PARAMETER	VALUE
Model	CT-100C
Bus Standard	VXIbus Specification Revision 2.0
Slots	6 C-size
Usable Power	500 W to 50 C derated 2.5 percent perCabove 50 C
Plus 5 V Peak Current	40 A
Plus 5 V Dynamic Current	5 A
Minus 5.2 V Peak Current	10 A
Minus 2 V Peak Current	8 A
Plus 12 V Peak Current	8 A
Minus 12 V Peak Current	4 A
Plus 24 V Peak Current	4 A
Minus 24 V Peak Current	4 A
Ripple Noise Plus 5 V	50 mV
Ripple Noise Plus 24 V	150 mV
Input Voltage	100 VAC to 240 VAC 50/60 Hz 47 to 63 Hz class
Inrush Current	less than 40 A cold start
Input Current	10 A max
Input Leakage	less than 1.24 mA at 264 VAC 53 Hz
Width	6.96 inch 176.78 mm
Height	15.00 inch 381.00 mm
Depth	21.3 inch 541.02 mm
Standby Current Maximum	1 A total on plus 5 V STDBY pins
Monitor Outputs	plus 5 V plus 12 V plus 24 V minus 5.2 V minus 12 V minus 24 V minus 2 V Fan OK
Operating Vibration Class	0.27 g-rms 5 to 55 Hz
Functional Shock	half sine 30 g 11 ms MIL T 28800E Type III Class 5

PARAMETER	VALUE
Power Supply Protection	short circuit overvoltage reverse voltage thermal shutdown

CT100C Specifications

PARAMETER	VALUE
Applications	Portable and rack VXI instrument hosting for VMIP cards, slot 0 resource managers, and compact ATE.
Key Features	Six C-size VXI slots (slot 0 plus five instruments)
Protected UL CSA TUV power supply module	Plus 5 V standby input for memory/oscillators
Technical Specifications	Model: CT-100C

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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Notes

From VTI Technology CT-100C Series Six-Slot VXibus Chassis user manual power and mechanical tables. CT-100B is the prior portable six-slot sibling; useCrows for CT-100C.

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.