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Data Sheet

August 14, 2026

AMETEK / VTI INSTRUMENTS / VXI TECHNOLOGY

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

Ametek / VTI Instruments / VXI Technology Modular Instrument Chassis. Voltage: 115 VAC / 220 VAC auto-select.



MODEL

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

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CT-100B

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ametek / VTI Instruments / VXI Technology CT-100B is a portable, six-slot VXIbus mainframe designed for laboratory and field test applications. This C-size mainframe conforms to VXIbus Specification Revision 1.4 and accommodates five VXIbus-compatible instrument modules plus a dedicated Resource Manager slot. A multi-layer, monolithic backplane with automatic solid-state daisy-chain jumpering enables reliable interrupt and grant signaling. The unit measures 8.2" W × 15" H × 21" D and weighs 28 lbs, with a removable outer cover for straightforward module access during development and troubleshooting. Technical Specifications Electrical Performance Input voltage: 115 VAC / 220 VAC auto-select; 90–132 VAC operating range for 115 VAC nominal Frequency: 47 Hz to 63 Hz Total power output: 450 W @ 40 °C Per-slot allocation: 60 W/slot

maximum for 10 °C rise 5V standby supply: Rear panel connector provides 5V STANDBY routed directly to backplane for battery backup and reference oscillators Power supplies: UL, CSA, and TUV approved with short-circuit, over-voltage, reverse-voltage, and thermal-shutdown protection Monitoring: Front-panel display of all supply line status Architecture Slots: Six total - five for VXIbus modules, Slot 0 for Resource Manager Backplane: P1 and P2 VXIbus connectors per standard specification Cooling: Pressurized airflow system with rear-mounted intake, directed under card cage for even distribution Key Features Multi-layer backplane design reduces noise and crosstalk Pressurized cooling increases MTBF and module reliability Flexible deployment: bench-top, portable, or rack-mount (with optional kit) All power rails monitored and displayed in real time Removable enclosure simplifies module insertion and removal Typical Applications Portable automated test systems for field environments Laboratory instrument integration and measurement platforms Modular data acquisition and signal processing Compatibility & Integration The CT-100B is fully VXIbus Revision 1.4 compliant and accepts any standard VXIbus module. The 5V standby supply supports optional battery-backed or reference oscillator circuits. Fused input selection accommodates both 115 VAC and 220 VAC mains.

CT100B Characteristics / Specifications

PARAMETER	VALUE
Bus Standard	VXIbus Specification Revision 1.4
Slots	6 C-size
Instrument Slots	5 plus slot 0 resource manager
Usable Power	450 W at 40 C
Plus 5 V Peak Current	35 A
Minus 5.2 V Peak Current	25 A
Minus 2 V Peak Current	7 A
Plus 12 V Peak Current	4 A
Minus 12 V Peak Current	4 A
Plus 24 V Peak Current	4 A
Minus 24 V Peak Current	4 A
Plus 5 V Dynamic Current	5 A
Minus 5.2 V Dynamic Current	4 A
Ripple Noise Plus 5 V	50 mV DC load
Input Voltage Low	90 to 132 VAC nominal 115 V
Input Voltage High	180 to 264 VAC nominal 230 V
Line Frequency	47 to 63 Hz
Fuse 115 V	10 A slow blow
Fuse 220 V	5 A slow blow
Standby Input	plus 5 V STDBY 6 A max banana jack
Dimensions Without Feet	8.2 inchWx 15 inchHx 21 inchDMass: 28 lb 12.7 kg
Operating Temperature	0 to plus 50 C
Storage Temperature	minus 40 to plus 70 C
Humidity	5 to 95 percent non condensing
Altitude	up to 3000 m

PARAMETER	VALUE
Mttr	30 min
Power Supply Protection	short circuit overvoltage reverse voltage thermal shutdown

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 to plus 70 C
Operating temperature	0 to plus 50 C
Operating Temperature	0 to plus 50 C
Humidity	5 to 95 percent non condensing
Altitude	up to 3000 m
Mttr	30 min
Power Supply Protection	short circuit overvoltage reverse voltage thermal shutdown Notes From VTI Technology CT-100B Six-Slot VXIbus Chassis user-manual power and mechanical tables. CT-100C is the later 500 W sibling.

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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Minus 2 V Peak Current	7 A
Plus 12 V Peak Current	4 A
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Plus 24 V Peak Current	4 A
Minus 24 V Peak Current	4 A
Plus 5 V Dynamic Current	5 A
Minus 5.2 V Dynamic Current	4 A
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Notes

From VTI Technology CT-100B Six-Slot VXibus Chassis user-manual power and mechanical tables. CT-100C is the later 500 W sibling.

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.