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## Portable Six-slot VXIbus Mainframe



Designed to Provide Cost-effective VXIbus Solutions

Can House up to Fifteen VXIbus Instruments (VMIP™)

Removable Cover. Access to Instruments During Product Development or Instrument Calibration

Power Supply Monitoring

Solid State Jumperless Backplane

### Cost-effective Portable Test Solutions

The CT-100B portable C-size VXIbus mainframe provides very cost-effective test solutions in a small footprint. When using VMIP™ instruments such as DMMs, arbitrary waveform generators, digitizers, etc., complete test scenarios can easily be configured for thousands of dollars less than using conventional VXIbus products.

### Backplane

The backplane is a monolithic, multi-layer design, with automatic, solid state daisy-chain jumpering for the interrupt acknowledge and VMEbus grant lines. This eliminates the need for manual jumpering and provides improved reliability over mechanical jumperless backplane designs. Instrument modules can now be added or removed without concern for the backplane configuration.

### Performance

Years of VXIbus mainframe design experience, along with advancements in technology, have enabled VXI Technology to produce a 6-slot VXIbus mainframe at a price hundreds of dollars below the competition...and with superior performance.

The CT-100B uses a pressurized airflow system. As air enters the mainframe from the rear, it is pressurized below the cards and evenly distributed across all slots and along the total length of each card slot, avoiding hot spots common in other designs. The air exhausts through the top and away from the user. This cooling approach helps increase MTBF figures and module performance.

High-quality power supplies are used in the CT-100B and are UL, CSA and TUV approved. The power supplies are short-circuit, over-voltage, reverse-voltage and thermal-shutdown protected. Auto-ranging power supplies are used to avoid any concern about the voltage source used. In addition, all supply lines are monitored and displayed on the front panel to provide user feedback of correct operation.

### Flexibility

The CT-100B is designed to provide flexibility of use in bench-top and rack-mount applications, as well as in portable environments. The outside cover is removable for easy access to the VXIbus modules during bench-top development, troubleshooting, or calibration. For rack-mount applications, a rack-mount kit allows the CT-100B to mount flush, or be recessed four inches. A latched door is provided with the rack-mount kit, which can be user-modified to accept connectors, switches, or indicators.

# CT-100B

## Portable Six-slot VXIbus Mainframe



### Specifications

**Size:** 21" deep x 8.2" high x 15" wide without handles and feet  
21" deep x 8.5" high x 17" wide with handles and feet  
Six C-size VXIbus card slots

**Weight:** 28lbs. / 12.7 kg

**VXIbus Revision:** 1.4

**Useable Power:** 450 Watts @ 40 °C

#### DC Supply Voltage:

Peak	Dynamic Current (Imp)	Current (Imd)
+5V	35A	5A
-5.2V	25A	4A
-2V	7A	2A
+12V	4A	2A
-12V	4A	1.5A
+24V	4A	3A
-24V	4A	3A

**Cooling:** 60 Watts/slot max for a 10 °C rise  
80 Watts/slot max for a 15 °C rise

**MTTR:** 30 Minutes

**Input Voltage:** 115 VAC Nominal, 90 - 132 VAC  
230 VAC Nominal, 180 - 264 VAC  
Auto selected, (47Hz - 63 Hz)

**+5VSTBY** 6A max., user- supplied  
Standard banana jack on rear panel, voltage and ground

**Temperature:** 0°C to 50°C Operating  
- 40°C to +70°C Storage

**Power Supplies:** UL, CSA, TUV approved  
Short circuit, over-voltage, reverse voltage, and thermal shutdown protection

**Rack Mount Kit:** Kit with slides available  
5 U high EIA rack (8.75")

**Environmental:** CISPR 11, EN 55011, Class A  
IEC 801-2, EN 50082-1, 4kVCD, 8kVAD  
IEC 801-3, EN 50082-1, 3 V/M  
IEC 801-4, EN 50082-1, 1kV



Covers Off

### Ordering Information

CT-100B Portable Six-slot Mainframe

Option 59: Rack Mount Ears  
Option 60: Rack Mount Door Kit (w/o slides)  
Option 63: 20' Rack Slides (for Flush Mounting)  
Option 64: 24" Slides (for 4" Recessed Mounting)



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