CT-100C

Portable Six-slot C-size VXIbus Mainframe

Features

- Designed to Provide Cost-effective VXIbus Solutions
- Removable Cover. Access to Instruments During Product Development or Instrument Calibration
- Adjustable Fan Speed
- Enhanced Monitoring Included
- Fault Output Signals Available on Rear Panel
- Modular Fan/Power Supply Assembly Reduces MTTR

Overview

The CT-100C 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-100C 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-100C 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.

Monitoring

The CT-100C provides a rear panel connector where the status of each of the power supplies, AC input, and fans are available for monitoring as open-collector lines. This allows multiple chassis to be monitored. In addition, all supply lines and fan operation are monitored and displayed on the front panel to provide user feedback of correct operation.

Flexibility

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

Portable Six-slot C-size 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: 25 lbs

VXIbus Revision: 2.0

Usable Power: 500 W @ 40 ˚C

DC Supply Voltage:

	Peak Current (Imp)	Dynamic Current (Imd)
+5 V	40 A	5 A
-5.2 V	10 A	5 A
-2 V	8 A	2 A
+12 V	8 A	2 A
-12 V	4 A	2 A
+24 V	4 A	2 A
-24 V	4 A	2 A

Cooling: 80 W/slot max for a 10 ˚C rise
120 W/slot max for a 15 ˚C rise

MTTR: 5 Minutes

Input Voltage: 100 - 240 V ac, 50/60 Hz

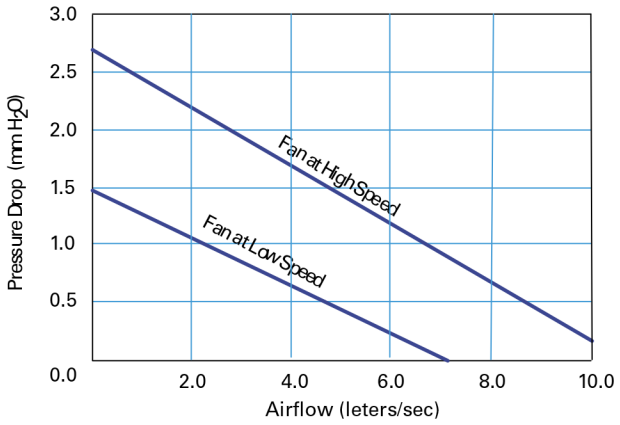
+5VSTBY: 1 A max., user-supplied 25p DSub on rear panel, voltage and ground

Temperature: 0 ˚C to 55 ˚C Operating
- 40 ˚C to +70 ˚C Storage

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

Rackmount Kit: Kit with slides available
5 U high EIA rack (8.75″)

Cooling Specification Chart



Ordering Information

CT-100C	Portable 6-slot C-size VXIbus Mainframe
Option 59:	Rackmount Ears
Option 60:	Rackmount Door Kit (w/o slides)
Option 63:	20′ Rack Slides (for Flush Mounting)
Option 64:	24″ Slides (for 4″ Recessed Mounting)
Option 65:	Rackmount Door Kit, Acrylic (w/o Rackmount)
Option 110:	Blanking Panel (Single)
Option 111:	Blanking Panel (Double)

CT-100C