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Modular 13-slot C-size VXIbus Mainframe



CT-400 Shown with 17 Instruments and 14 Switch Modules

Features

- A Price/Performance Breakthrough for VXI Mainframes
- Modular Power Supply Assembly
- Over 1000 Watts of Usable Power
- Highly Efficient, Quiet Cooling System
- Enhanced Monitoring Included
- All Seven DC supply Lines Available on Rear Panel for Powering External Devices
- All Eight TTL trigger Lines Available on Rear Panel for Triggering to/from Other Instruments
- Fault Output Signal Available on Rear Panel, Flags System Failure Condition
- Remote Power-off Input on Rear Panel Allows System to be Shut Down

Overview

The CT-400 has been designed with over a decade of experience in VXIbus mainframe and instrument development, and in pioneering reduced cost of entry into VXI, while maximizing performance. By combining the CT-400 with VXI Technology's lines of high-performance VXIbus instruments (VMIP™ family), and high-density modular switching systems (SMIP™ family), a modular test system can be cost-effectively configured in a small footprint.

Cost-effectiveness

The price of a VXIbus mainframe considerably impacts the overall cost of the complete test system, particularly if the test system uses multiple VXIbus mainframes. When putting several instruments in a system, the power and cooling capacity of the mainframe is also an important consideration. The CT-400 offers customers a 1000 W high-performance mainframe for the price of 500 W VXIbus mainframes available from other manufacturers.

Performance

Being a leading instrumentation supplier, VTI designed the CT-400 with performance in mind. Emphasis has been put into the following areas:

Backplane - The backplane incorporates a feature set that is unique in the industry: a custom power sub-panel to distribute all supply lines across the backplane, automatic active Bus Grant and IACK jumpering, as well as a 10-layer stripline construction providing superior performance that minimizes crosstalk. The use of computer simulation has resulted in an optimized design with low resistance, low AC noise, and outstanding power distribution. Backplane and inter-module shields are also available for improved EMI/RFI performance.

Airflow - The airflow design utilizes a pressurized plenum system with a unique baffling system to guarantee enough cooling capacity to satisfy even the most power-hungry applications. The cooling direction follows traditional airflow conventions for instrument racks, guaranteeing that hot air escaping from neighboring equipment does not interfere with the CT-400 cooling system.

Maintenance - The power supply assembly is completely removable and field-upgradeable from the rear of the CT-400, minimizing the mean-time-to-repair.

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Power and Health Monitoring

The CT-400 includes, as a standard feature, a powerful monitoring system with user outputs on the rear panel for the following:

- **Over-temperature interrupt**
- **Over-voltage interrupt**
- **Over-current interrupt**
- **Over-ambient air temperature (>55 ˚C) interrupt**
- **Fan-speed drop interrupt**
- **Fan tachometer outputs**
- **Main fault interrupt output - the logical 'OR' of all other fault interrupts**
- **All seven VXIbus supply lines protected to 1 A with self-healing fuses, allowing the VXIbus mainframe to provide DC power to devices other than VXIbus cards**
- **All eight TTL trigger lines; allows other non-VXI devices or additional chassis to share trigger bus**

All failure outputs are made available as open-collector lines that can be tied with other VXIbus chassis in a multi-chassis system. Fan speed can also be set to low, high or variable. When in variable mode, the fan speed is automatically adjusted based on power usage and ambient air temperature. One LED per interrupt output immediately indicates the failure condition of the VXIbus system.

Front panel voltage indicator LED's also provide a comprehensive indication of the health of the chassis at a glance. Status of each of the power supply lines and the operational status of the chassis are provided. A green LED indication specifies the voltage is within limits, a red indication specifies an over-voltage condition, and an unlit indication specifies an under voltage condition.

Mounting and Cabling Access

Several options are available for mounting and integrating the CT-400 into a standard EIA rack:

Adjustable rackmount flanges with handles (Option 100) are available that allow the mainframe to be accommodated in any depth rack -- either recessed in the rack (up to 10 inches), or extended out from the rack (up to 5 inches).

Cable trays are available in 1U and 2U depths that allow access between the front and rear of the mainframe and other instruments within the rack (Options 105 and 106).

A transparent front door is available that allows protection of instruments and cables while permitting the viewing of VXIbus instrument annunciators (Option 103).

A customizable front panel (Option 104) is available that hinges down and mounts on the front of the CT-400. This option allows custom connectors and small interface adapters to be mounted directly on the front of the VXIbus mainframe, reducing cable lengths and improving signal integrity.

A VXIplug&play compliant adapter kit (Option 101) is available that allows the CT-400 to be used with VXIplug&play adapters and interfaces.

VXIplug&play interface connector assembly.

The CT-400 has been designed to allow front and rear panels to be easily customized. This reduces the need for customers to design custom panels elsewhere in the rack, and keeps cable lengths at a minimum. VXI Technology's custom engineering services can help configure these panels.

Specifications

Size:	25" deep x 14" high x 16.7" wide C-size 13 VXIbus card slots
Weight:	<50 lbs
VXIbus Revision:	1.4
Cooling:	>100 W/slot
Input Voltage:	100 - 240 V ac / 120 - 135 V dc 50/60 Hz (47 Hz-440 Hz with increased leakage current and reduced PFC)
MTBF:	100,000 Hours

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Modular 13-slot C-size VXIbus Mainframe

Total Available Power:	1769 W	
Total Usable Power:	1000 W	
Periodic and Random Deviations (PARD):	+/- 24 V:	150 mVp
	All others:	50 mVp
Auxiliary DC Outputs (fused, self-healing):	1.0 A each all 7 supply voltages	

MTTR: 5 Minutes

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

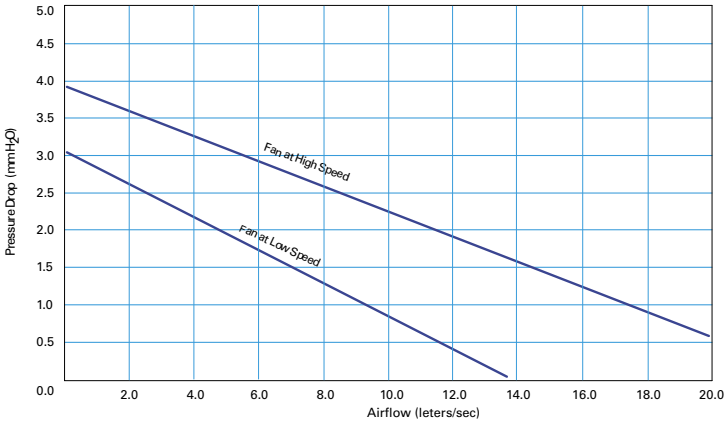
Power Supplies: UL, CSA, TUV approved. Short circuit, over-voltage, reverse voltage, and thermal shutdown protection.

A total of 1000 Watts may be supplied to the modules with the following maximum currents:

DC Supply Voltage:

	Peak Current (Imp)	Dynamic Current (Imd)
+5 V	80 A	15 A
-5.2 V	60 A	9 A
-2 V	30 A	4.5 A
+12 V	17 A	3 A
-12 V	17 A	3 A
+24 V	12 A	6.5 A
-24 V	12 A	6.5 A

Cooling Specification Chart



Ordering Information

CT-400	13-slot VXI Mainframe
Option 100:	Adjustable Rackmount Flanges with Handles
Option 101:	VXIplug&play (VPP-8) Rackmount Kit
Option 102:	Rackmount Slides
Option 103:	Transparent Front Door
Option 104:	Hinged Custom Front Panel (includes option 100)
Option 105:	1U Cable Tray
Option 106:	2U Cable Tray
Option 108:	Inter-module Shields (12)
Option 110:	Blanking Panel (Single)
Option 111:	Blanking Panel (Double)
Option 113:	Spare Power Supply

CT-400

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