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VXI Technology™

CT-300 Series

Five-Slot, C-size Modular and Portable Mainframes



Front View
of CT-310 (Left) and CT-320 (Right)

- Designed for Portability
- Lightweight (Under 22 lbs. including power supplies)
- Small Portable Footprint
(Only 20" deep x 7" high x 15" wide)
- Can House up to Twelve VXIbus Instruments
(VMIP™)
- Available in Two Versions
- Field-replaceable Power Supply
and Fan Subassembly for Low MTTR
- Remote Isolated On/Off Control
- All Supply Line Voltages Available for
Powering the UUT and External Monitoring

Portability

The CT-300 Series of 5-slot VXIbus mainframes is designed from the ground up for portability, weighing 10 to 15 lbs. less than other portable VXIbus mainframes with equivalent power capacity. With the introduction of VXI Technology's VXIbus Modular Instrumentation Platform (VMIP™), up to 12 high-performance instruments can now be accommodated in a 5-slot VXIbus mainframe, allowing truly portable test scenarios.

Modularity and Maintenance

The CT-300 Series has been designed with a plug-in power supply and fan assembly. This makes it ideal for applications that require a portable tester to be used in production, repair facility, or transported to the field. This approach also lends itself nicely to improve mean-time-to-repair (MTTR) of the mainframe.

The power supplies are designed using modular components, with each of the seven VXIbus voltage lines having its own power supply module. This allows full power utilization of all the supply voltages without making tradeoffs. Each supply voltage is monitored, with LED feedback provided on the front panel, allowing the user to automatically determine a power failure. All of the VXIbus voltages are also available at the rear panel for powering external circuits or for external voltage monitoring.

Each external supply voltage output is protected with a self-healing fuse, eliminating the need to replace fuses should a short circuit occur. This feature allows the CT-300 Series to provide UUT power directly from the built-in supply lines (+5V, ±12V, ±24V, -5.2V and -2V).

Performance

Our years of VXIbus mainframe design experience, along with advancements in technology, have enabled us to produce a light- weight, portable 5-slot mainframe that outperforms much larger and more costly 5- or 6-slot VXIbus mainframes.

The CT-300 Series uses a pressurized airflow system. As air enters the mainframe from the rear, it is pressurized below the cards, then evenly distributed among all slots and along the length of each card slot, using a specially engineered "airflow deflector" and pressurized plenum cooling system. The air is then exhausted through the top and away from the user.

While the CT-310 provides the smallest possible footprint, the CT-320 is designed for applications where a top air exhaust is not desirable; for example, field maintenance where the top of the mainframe needs to be closed off to prevent small objects from being dropped into the mainframe.

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CT-300 Series

Five-Slot, C-size Modular and Portable Mainframes

The CT-300 Series has a high-performance, multi-layered backplane, which is jumperless and uses semiconductor switches for improved mean-time-between-failures (MTBF) and ease of configuration.

The CT-300 Series has over 500 Watts of total usable power, which is equivalent to 1300 Watts in a 13-slot VXIbus mainframe. This is more than enough power for virtually any application, and considerably more than other portable mainframes in its class. Remote isolated on/off control is also provided, allowing the CT-300 Series to be mounted in hard-to-reach places and powered on or off by a remote switch.



Rear View of CT-310

Specifications

Size: 20" deep x 7" high x 15" wide (CT-310)
20" deep x 7"high x 17" wide (CT-320)
C-size, 5 VXIbus card slots

Weight: 22 lbs.

VXIbus Revision: 1.4

Cooling: > 65 Watts/slot

Rack Mount Kit: Kit with slides and front door available to allow the CT-300 Series to be recessed in the rack for cable harnessing

Input Voltage: 90VAC-250VAC (47 Hz - 440 Hz) power factor corrected

MTBF: 100,000 Hours

MTTR: 5 Minutes

Temperature: 0ºC to 55ºC Operating
-40ºC to +70ºC Storage

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

DC Supply Voltage	Peak Current (Imp)	Dynamic Current (Imd)
+5V	30A	5A
-5.2V	25A	5A
-2V	7A	2A
+12V	6A	2A
-12V	6A	2A
+24V	3A	2A
-24V	3A	2A

Total Usable Power: 450 Watts

Ordering Information

CT-310	5-slot mainframe
CT-320	5-slot mainframe designed for maintenance environments
Option 52:	Rack mount Ears (CT-310 only)
Option 53:	Rack mount door kit (Ct-100 only)
Option 57:	20”rack slides (for flush mounting)
Option 58:	24” rack slides (for 4” recessed mounting)

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