DataMetrics™

Model 7103
5 Slot VME RCOTS Chassis

*Previously Model #6500

DataMetrics Corporation 45 YEARS 1962 - 2007

Key Features

- Qualified to MIL-STD-810E/461E
- 5 Slot VME Backplane and Card Cage
- Optional Internal Environmental Monitor and Control
- Rugged Aluminum Chassis Designed to Meet MIL-STD-810E/461E
- Convection Cooled
- Hot Swappable Hard Drives Available
- Customer Definable Configurations

Model 7103 3U 5 Slot VME Chassis

DataMetrics™ rugged chassis are designed to meet and exceed military, industrial, or customer defined specifications. System integration can be accomplished by adding software, I/O (digital and analog), single board computers, or other functionality. The Model 7103 comes with a fully customizable 5 slot VME backplane and can be custom configured with various peripherals. This chassis supports popular backplanes such as VME, VME 64X, VITA 31, VITA 41, VITA 46, CompactPCI 2.1, CompactPCI 2.16, and more. The power supplies used are fully configurable to meet all output voltages and current requirements and provide optional voltage margining for circuit development and system characterization. The optional Ethernet based system monitor can track chassis temperature, input voltages, fan speed, and more. Contact DataMetrics™ to design your custom chassis today!

ISO 9001 REGISTERED FIRM

*Simulated Image

Fully Mission Capable™

DataMetrics™ 7103 Specifications

Environmental Characteristics

Temperature - Operating. . . . -25ºC to 55ºC
Temperature - Storage. . . . . .-40ºC to 70ºC
Humidity. . . . . .10% to 95%, Non-condensing
Explosive Atmosphere. . . . . .MIL-STD-810E, Method 511.3
Fungus. . . . . .MIL-STD-810E, Method 508.4
Orientation. . . . . .±45º from horizontal, any axis
Vibration . . . . . .5g Sinusoidal and Random per MIL-STD-810E, Method 514.4, Procedure I
Shock - Operating . . . . . .15 G MIL-STD-810E, Method 516.4, Procedure VI
Shock - Non-operating. . . . . .20G MIL-STD-810E, Method 516.4, Procedure VI
Altitude - Operating . . . . . .15,000 ft.
Altitude - Non-operating. . . . .50,000 ft.
EMI/EMC. . . . . .MIL-STD-461E, CE101, CE 102, CS101, CS114, CS116, RE102, RS101, RS103, RE101
ESD. MIL-STD-1686A

Performance Characteristics

Backplane - Standard . . . . . .5 Slot VME – Single or Multiples
I/O Panels . . . . . .Rear panel for both P2 and Face Plate Connections
Cooling . . . . . .Convection Cooled – 1 ea 120 CFM Fans Fans are environmentally speed controlled
Temperature Sensing . . . . . .System monitor constantly measures selected temperature points
Power Supply . . . . . .System monitor constantly measures input AC voltage and DC voltage outputs
Peripheral Bay. . . . . .Configurable with various peripherals
Hard Drives - Optional . . . . . .Hot swappable (SCSI-UW compatible)

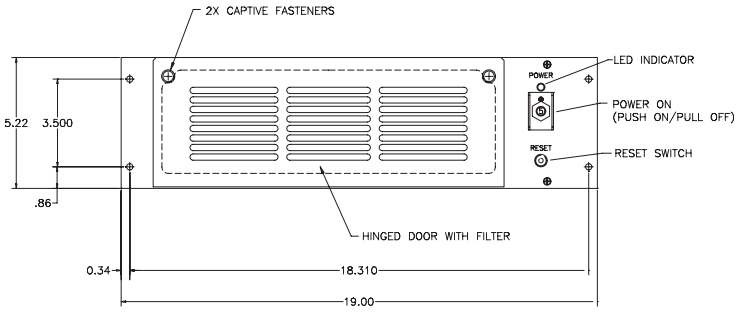
Electrical Characteristics

Power – Standard . . . . . .Three phase WYE 95 - 125 Vac, 47 - 440 Hz
Power – Optional . . . . . .Single Phase Autoranging 95 - 240 Vac, 47 - 440 Hz; +18 - 32 Vdc
DC Outputs . . . . . .+5 Vdc @ 70A
+12 Vdc @ 20A
-12 Vdc @ 10A
Voltage Holdup . . . . . .Per MIL-STD-704A, 50ms for 650W Load
Power Consumption . . . . . .350W Standard (dc)

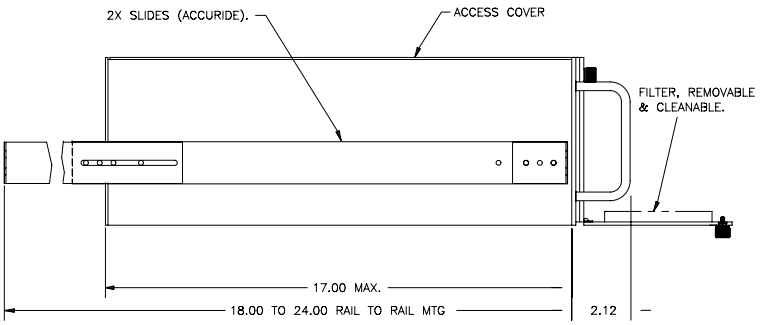
Physical Characteristics

Size - With Handles. . . . . .(3U) 5.25” H x 19” W x 19.1” D
Weight . . . . . .40 lb. Aluminum Chassis

Front View



Side View



Ordering Information

Part Number	Description
PEC200284-001-C000	RCOTS, 3U, 5 Slot, VME, Clear Chem. Finish
7103-052X-C000	RCOTS, 3U, 5 Slot, VME64x, Clear Chem. Finish
7103-053X-C000	RCOTS, 3U, 5 Slot, VITA, Clear Chem. Finish
7103-054X-C000	RCOTS, 3U, 5 Slot, CPCI, Clear Chem. Finish

Standard Configuration PEC200284-001
“X” indicates ordering options for additional features.
Contact DataMetrics for other options and custom configurations.

Technical Specifications are subject to change without prior notice.

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