



DataMetrics™

7000 MULTI-ARCHITECTURE SERVER CHASSIS



Key Features

- Chassis-In-Chassis Design, with Shock-Isolated Inner Chassis
- Shock Meets MIL-STD-810F/516.4 VI
- Vibration Meets MIL-STD-810F/514.4-I
- Drip-Proof per MIL-STD-810F/506.3-II
- Fungus Resistant per MIL-STD-810F/508.4-I
- Sand and Dust Resistant
- EMI/EMC Meets MIL-STD-461E
- Supports Popular Backplanes, such as VME, VME64x, VITA 31, VITA 41, VITA 46, CompactPCI 2.1, CompactPCI 2.16
- Supports 3U x 160mm or 6U 160mm Plug-In Boards (When Configured with Appropriate Backplane)
- Supports Single or Multi-CPU motherboards, such as Core2 Duo, XEON, FX/AM2, Opteron
- Front Accessible Fixed Drive and Removable Drive System
- Aluminum or Steel Chassis
- Customer Definable Configurations or Complete Custom-Design Chassis Available

Model 7000 Overview

Model 7000 is a new member of DataMetrics™' lineup of rack mountable Rugged Commercial-Off-The-Shelf (RCOTS) chassis products. Originally designed as a dual processor server chassis deployed in the Iraq conflict, Model 7000 meets essential high-reliability MIL standards, such as 810, 461 and 1686. Moreover, it is highly resistant to airborne dust and sand. Easily-accessed air filters make service simple and fast.

As with many of DataMetrics™ COTS and RCOTS chassis, Model 7000 is available in various standard configurations, notably passive backplanes and active motherboards. Specific backplane architectures that can be ordered include VME, VME64x, VITA 31/41/46, CompactPCI 2.1 or 2.16, and PICMG PCI. Popular motherboard form-factors that Model 7000 accommodates include ATX and mini-ATX.

With its aggressive push-pull cooling system, various CPU types will operate without issue when exposed to an operating temperature range of -10°C to +50°C. CPU examples include Intel's Pentium-M, Core2 Duo, Xeon and the upcoming Core2 Duo/Quad, as well as AMD's line of Athlon/AM2 through server-class Opteron.

Model 7000 accommodates fixed and removable drive configurations. In fact, DataMetrics™, in response to requests from the Military, designed a removable drive cartridge/frame system optionally featured in this model and in service in the Middle East, and is available as an ordering option.

Custom configurations are available. Contact your local DataMetrics™ representative or DataMetrics™ directly.

Fully Mission Capable™





Environmental Characteristics

Temperature	Operating: -10°C to 50°C Storage: -40°C to 70°C
Humidity	10% to 98%, Non-condensing
Sand, Dust	Highly resistant
Rain	MIL-STD-810F, Method 506.4, Procedure III
Fungus	MIL-STD-810F, Method 508.5
Orientation	±30° from horizontal, any axis
Vibration	MIL-STD-810F, Method 514.5, Procedure I
Shock	MIL-STD-810F, Method 516.5, Procedure I & VI
Altitude	Operating: 15,000 ft. Non-operating: 40,000 ft.
EMI/EMC	MIL-STD-461E, CE101, CE102, CS-101, CS114, RE101, RE102, RS102, RS103
ESD	MIL-STD-1686A

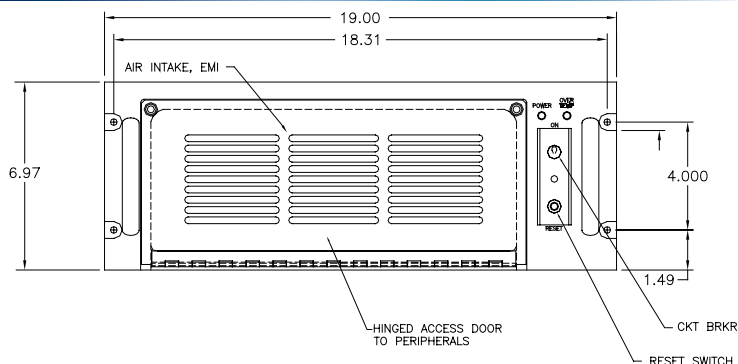
Electrical Characteristics

Power – Standard	95 - 250 Vac, 47 - 440 Hz
Power – Optional	28 Vdc
Power Consumption	150W nominal

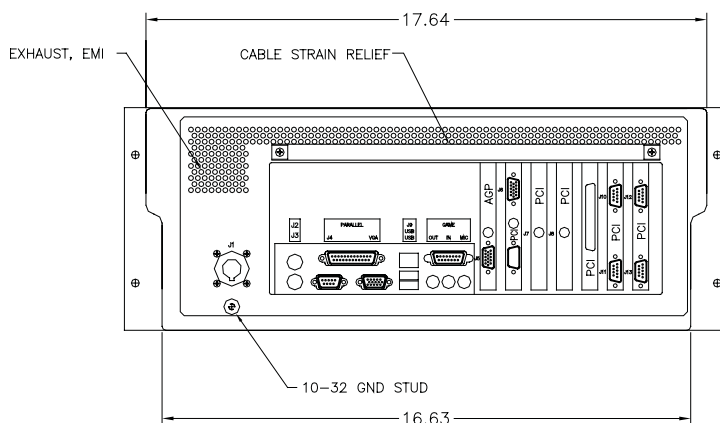
Physical Characteristics

Size	7 in. H x 16.91 in. W x 20 in. D
Weight	40 lbs.
Rack Mount	RS-310 RETMA

Front View



Back View (Motherboard Configuration Shown)



Ordering Information

Contact DataMetrics™ for specifications and options.