

TUFF RIDER™ SERIES

Model 9000-EC Brick

Embedded Computer



- Powerful Intel® Pentium® III and Celeron® Processors
- Small Footprint for Space-Challenged Applications
- Compatible with a Variety of Operating Systems
- Up to 10 Various I/O Ports
- Lower Power Utilization
- Rugged COTS System

Fully Mission Capable™

Tuff Rider™ Series Model 9000-EC Brick (Embedded Computer)

DataMetrics Model 9000-EC Bricks are general-purpose, compact and rugged standard off-the-shelf systems with a small footprint and are ideally suited for low-power, ultra-performance, space-challenged applications. The Model 9000-EC Brick features dual USB 1.1 ports, dual USB 2.0 ports, standard RS-232 serial port, dual CardBus slots, dual RJ45 10/100 Ethernet interfaces with built-in PXE (Pre-boot Execution Environment) code, high-performance 3D graphics accelerated chipset, and compatibility with a variety of operating systems including various versions of Linux and Microsoft® Windows®. The Model 9000-EC Brick may be ordered in various configurations.

Environmental Characteristics

Temperature	Operating: 5°C to 40°C (41°F to 104°F) with rotating drives 0°C to 50°C (32°F to 122°F) with solid-state drives Storage: -20°C to 60°C (-4°F to 140°F)
Shock	Operating: 20g Non-operating: 20g Bench Handling: 3g non-operating
Vibration	Operating: 0.4G with rotating drives, 2.2G with solid-state drives Storage: 1.0G with rotating drives, 2.2 with solid -state drives
Humidity	Operating: 5-90% RH, non-condensing Non-operating: 5-95% RH, non-condensing
MTBF	50,000 hrs.

Performance Characteristics

Processor	Ultra Low voltage Intel® Celeron® processor 400MHz, 650MHz or Intel® Pentium® III processor – Low Power 933MHz with Intel® 815E Chipset
Operating System	Microsoft® Windows® XP Professional, Microsoft® Windows® 2000 Professional, Redhat Linux, SuSE Linux, or FreeBSD
Memory	128MB, 256MB, 512MB PC133 SDRAM SO-DIMM
Storage	40GB 2.5" ATA100 HDD (other sizes optional) IDE Compact Flash socket (externally excessable)
Interfaces	Standard: PS/2 mouse/keyboard connector, VGA, Dual RS-232 serial ports, Dual USB 1.1 ports, and Dual USB 2.0 ports, Dual RJ45 10/100 Ethernet connectors (PXE enabled), 2 x Type II PCMIA slots

Electrical Characteristics

Power	20VDC, 5A – AC Adapter
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Physical Characteristics

Size	6.6875 in. W x 6.89 in. H x 5.3125 in. D (170mm D x 60mm H x 135mm D)
Weight	4.5 lbs. (2000g), without hard disk drive