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DuraCOR® 810

PRODUCT DATASHEET

Rugged MIL-STD-810 COTS Processor Platform with Mobile Pentium

FEATURES



CPU:
Low-Power, Conductively Cooled Intel Pentium-M

MIL-STD-810 COMPLIANCE:
MIL-STD-810F Compliant (Crash Safety Shock, Functional Shock, Vibration, Temperature, Humidity, Dust and Water Ingress)

MODULAR/EXPANDABLE:
Internal PC/104 Card Cage with up to 6 Spare Slots for PC/104(+) Expansion Cards; 79-pin MIL-38999 Connector Pre-Wired to Internal Breakout Board for Add-On Cards

MECHANICAL:
Water Tight Aluminum Chassis with Hardened Finish; MIL-DTL-38999 (I/O) and IP68 (Power) Connectors

MIL-STD-461E Compliance:
Designed to meet MIL-STD-461E for Radiated and Conducted Emissions and Susceptibility

POWER:
Vehicle Grade DC/DC Converter, Voltage/Surge Protection and Filtering, MIL-STD-704E, MIL-STD-1275D Compliant

CONNECTIVITY & I/O:
Fast Ethernet, USB, Serial, Video, Audio

OPERATING SYSTEM:
Pre-loaded Linux / Windows XPe Eval License to Boot-up Out of Box

RELIABLE SIGNAL INTEGRITY:
Cable-less PCB Interconnect Scheme with Rugged Internal Edgemount Connectors Improves Signal Integrity and Reduce Customization Cycle

APPLICATIONS:
Civil / Military Mobile Rugged Computing, (Un)manned Vehicle Mission Processor, C4ISR Situational Awareness, 12V/24/28V Vehicle

DESCRIPTION

The DuraCOR® 810 is a rugged military-grade processor system designed for high reliability applications requiring MIL-STD-810F environmental compliance with extreme temperatures, shock/vibration, and ingress. Mechanically designed with considerations for dust exposure, water immersion, EMI/EMC, corrosion resistance, power protection, and system mobility, this high-performance tactical computer integrates a low-power 1.4GHz Pentium-M CPU together with a MIL-STD-704/1275 compliant power supply securely mounted in an aluminum PC/104 card cage. Up to 6 spare slots are available for PC/104(+) expansion cards. To enable rapid deployment, a solid state disk comes pre-loaded with a Linux image or Windows XPe eval license.

Locking MIL-C-38999 circular connectors bring out a rugged RJ-45 Ethernet connection, 4 USB ports, 2 RS-232 ports, VGA Video, Keyboard, Mouse, and Audio signals, as well as an expansion connector for up to 79 signals from optional add-on cards. A cable-less internal interconnect scheme is used to ensure high reliability, signal integrity, and ease of customization. The 79-pin connector is conveniently routed to an internal breakout board and headers so that application specific PC/104(+) cards can be easily integrated. Five LED indicators on the connector panel displays power and user-defined status outputs. Professional services are available by Parvus to deliver semi-customized versions of this product, including mechanical changes, alternative mass storage options, and integration of application-specific PC/104 Modules.

Parvus

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3222 S Washington Street
Salt Lake City, UT 84115

Web: www.parvus.com
Email: sales@parvus.com
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SPECIFICATIONS

LOW POWER X86 PROCESSOR:
- Intel Pentium M738, 2048k L2 cache
- 1.4 GHz clockspeed with Speedstep Technology
- Equivalent to a 2.8GHz Pentium 4 performance

RAM MEMORY:
1024MB / 512MB DDR-SODIMM

SOLID STATE DISK:
1GB non-volatile CompactFlash (upgrades available)

OPERATING SYSTEM:
- Pre-installed Linux OS or XP Embedded eval image
- Hardware compatible with all x86 embedded and real-time operating systems (Windows XPe, WinCE, Linux, QNX, VxWorks)

BUS ARCHITECTURE:
PCI/ISA Bus complying with PC/104-Plus standard

NETWORK:
100Mbps Ethernet interface

SERIAL:
2x RS-232 serial ports

USB:
4x USB 2.0 ports

AUDIO:
AC97 audio set: Line In, Line Out, Microphone (Reliable Audio Functionality Limited to -15C to +71C Operating Temp)

VIDEO:
VGA Analog Video Output

LEDs:
Five LED indicators: one for power, four user defined

POWER:
- 9-32 VDC Input (28VDC Nominal)
- Suitable for 12 or 24V Vehicle Battery Installations
- Reverse, Over voltage, Surge Protected
- MIL-STD-704E, MIL-STD-1275D Filtering/Surge Compliant
- 25 Watts Power Consumption (max) for base system (up to 40W add'l available for expansion cards)

TEMPERATURE (per MIL-STD-810F):
- Operating: -40°C to +71°C ambient (-40°F to +160°F)
- Non-Operating: -40°C to +85°C (-40°F to +185°F)
- Cooling: No Moving Parts. Passive Conductive

HUMIDITY (Designed to Meet MIL-STD-810F, Method 507.3):
- Up to 100% RH @ 40°C (Condensing)
- All Boards are Conformally Coated

PHYSICAL:
- Dimensions: Chassis - 10.60" (L) x 5.30" (W) x 5.30" (H) with connectors and heatsink; Mounting Plate - 5.30" (L) x 6.45" (W) x 0.375" (H)
- Installation: Flange Mount Baseplate
- Weight: 7.5lbs (3.40 kgs)
- Finish: Anodized per MIL-A-8625, Type II, Class 2
- Chassis: Aluminum Alloy, Corrosion Resistant, Sealed

EMI/EMC ISOLATION:
- Designed to meet MIL-STD-461E CE101, CE102, RE102, RS103

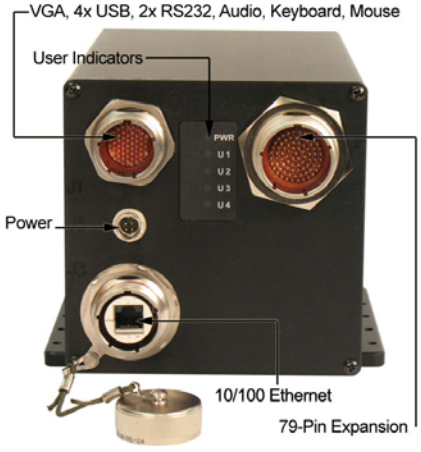
SHOCK/VIBRATION (per MIL-STD-810F):
- Operating Shock: 20g, 10ms, 3 pos/neg per axis, 18 total
- Random Vibe: 0.022-G^2/10-Hz to 0.0026-G^2/2000-Hz

LEAKAGE/IMMERSION:
- Meets MIL-STD-810F, Method 512 (1 Meter, 30 Minutes)
- Fully Gasketed and Sealed Chassis/Connectors

WARRANTY
- 1 Year RTF Warranty (Extended Service Contracts Available)



Fanless, Conduction Cooled Chassis



Standard PC Inputs/Outputs, LED Indicators and 79-Signal System Expansion Connector

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