

Parvus DuraCOR-820

Small Form-Factor Tactical Mission Computer - Enclosure Only



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DuraCOR™ 820

Small Form-Factor Tactical Mission Computer

PRODUCT FEATURES	
Small Form Factor:	<ul style="list-style-type: none"> Lightweight Metal Chassis: <3lbs (<1.36kg) Approx. 7" x 5" x 3" in Size
x86 CPU:	Low-Power 1.4GHz Intel Pentium M Architecture
OS:	Pre-loaded Linux Image or Windows XPe Eval License to Boot-up Out of Box
Power:	<ul style="list-style-type: none"> Vehicle Grade DC/DC Converter Voltage/Surge Protection MIL-STD-704E Compliant
MIL Grade:	<ul style="list-style-type: none"> MIL-STD-810F: Altitude, Shock, Vibration, Temperature, Humidity MIL-STD-461E: Radiated Emissions/Susceptibility & Conducted Susceptibility MIL-STD-704E: Power Supply Voltage and Suppression
Connectivity & I/O:	2x 10/100 Ethernet Interfaces, 3x USB 2.0 port, DIO, 2x RS-232 Serial Ports, VGA Video, Keyboard, Mouse
Mechanical:	<ul style="list-style-type: none"> Metal Chassis with Hardened Finish Lightweight, Ultraminiature MIL-D38999-like Connectors No Moving Parts. Passive Thermal Management Splash Resistant
Applications:	(Un)manned Vehicle Mission Processor Command and Control (C2) On the Move Civil / Military Mobile Rugged Computing C4ISR Situational Awareness 12V/24/28V Vehicle / Aircraft Installations



PRODUCT INFORMATION

****PRODUCT CURRENTLY IN PRE-PRODUCTION****

The DuraCOR™ 820 is a rugged mission processor system, optimally designed for space/weight-constrained military/aerospace ground mobile and airborne deployments. Targeting manned and unmanned applications where reliable high performance computing is required, the DuraCOR 820 delivers compliance to MIL-STD-810F environmental conditions (high altitude, thermal, shock, vibration, humidity), MIL-STD-461E EMI/EMC levels, and 28VDC avionics power supply standards (MIL-STD-704E). Less than 3" in height and 3lbs (<1.36kg) in weight, the DuraCOR 820 tactical computer features a conductively-cooled 1.4GHz Intel Pentium-M processor (equivalent to a 2.8GHz Pentium 4 performance) and a solid state disk pre-loaded with a Linux or Windows XP Embedded operating system image. Rugged watertight ultraminiature Mil-spec performance connectors bring out power, 3x USB, 2x RS-232, DIO, Keyboard, Mouse, and dual 10/100 Ethernet network connections. This robust combination of function and small form factor ruggedness enables the DuraCOR 820 to support a wide range of field applications, including Command and Control (C2) On-the-Move, Unmanned Vehicle Operator Control, C4ISR Situational Awareness, etc.

Download
Datasheet



For customer programs requiring expansion capabilities or application specific I/O functionality, Parvus offers the DuraCOR 810 processor platform. Please see [DuraCOR 810](#) datasheet.

PRODUCT SPECIFICATIONS	
Low-Power x86 CPU:	<ul style="list-style-type: none"> Intel Pentium M738, 2048k L2 Cache 1.4 GHz Clockspeed with Speedstep technology Equivalent in Performance to 2.8GHz Pentium 4
RAM Memory:	1024MB DDR-SODIMM
Solid State Disk:	2GB Non-Volatile CompactFlash (Capacity Upgrades Available)
Operating System:	<ul style="list-style-type: none"> Pre-installed Linux or XP Embedded Image (120-day eval license) Hardware Compatible with All x86 Embedded and Real-Time Operating Systems (Windows XPe, WinCE, Linux, QNX, VxWorks)
Network:	2x Fast Ethernet Network Interfaces (10/100Mbps)

Serial:	2x RS-232 serial ports, 115Kbps max
USB:	3x USB 2.0 port
Video:	VGA Analog Video Output
GP DIO:	4 Digital Inputs, 4 Digital Outputs
Physical:	<ul style="list-style-type: none"> • Weight: Approx. 2.7lbs (1.23kg) • Dimensions (H x W x L): 2.99" (75.95mm) x 4.30" (109.22mm) x 7.00" (177.8mm) - Including Connectors and Baseplate • Chassis: Aluminum Alloy, Corrosion Resistant • Connectors: Glenair Series 801 Mighty Mouse (MIL-38999-like) • Installation: Flange Mount Baseplate • Finish: Anodized per MIL-A-8625, Type II, Class 2
Power:	<ul style="list-style-type: none"> • 9-32 VDC Input (28VDC Nominal) • Reverse, Over Voltage, Surge Protected • MIL-STD-704E Compliance • 22 Watts Power Dissipation (max) • Ground: Grounding Lug For Connection to System Chassis Ground
Temperature:	Designed to Meet MIL-STD-810F: <ul style="list-style-type: none"> • Operating: -40°C to +70°C ambient (-40°F to +158°F) • Storage: -55°C to +85°C (-67°F to +185°F) • No moving parts. Passive conductive cooling.
Humidity:	Designed to Meet MIL-STD-810F: <ul style="list-style-type: none"> • 5% to 95% (Non-Condensing); 100% (Condensing) • All Boards are Conformally Coated
Shock/ Vibration:	Designed to meet MIL-STD-810F (Jet & Helicopter Test Profiles) <ul style="list-style-type: none"> • Operating Shock: 15g, 15ms, ½ Sine Wave, 3 Positive/Negative per Axis • Crash Safety Shock: 40g, 12ms, 2 Pluses per Axis • Random Vibration: 0.22-G²/10-Hz to 0.0026-G²/2000-Hz
EMI/EMC:	Designed to Meet MIL-STD-461E: <ul style="list-style-type: none"> • CS101, Power Leads, 30 Hz to 150 KHz, Curve 2 (28V and below) • RE102, Electric Field, 10 KHz to 18 GHz, Figure RE102-2 for Fixed Wing Shorter than 25m • RS103, Electric Field, 30 MHz to 18 GHz
Altitude:	Designed to Meet MIL-STD-810F: <ul style="list-style-type: none"> • Up to 60,000 feet (18,288 meters)
Ingress:	<ul style="list-style-type: none"> • Resistant to Dust, Water, and Moisture • Designed to Comply with IP65 and NEMA 4
Warranty:	1 Year RTF Warranty (Extended Service Contracts Available)

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