ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Curtiss-Wright / Parvus CBL-1594-01* at our website: ***Click HERE***

DuraCOR 810-Duo

MIL-COTS Rugged Vehicle Mission Computer Platform w/Intel Core2Duo

- 1.5GHz Intel Core 2 Duo Processor
- Solid State Media, MIL-STD Power Supply
- MIL-STD-704F & 1275D Transient Protection
- SATA, IDE, Removable Media Support
- Dual Ethernet, Video, Serial, and 6x USB
- Internal PC104 Card Cage with 6 Spare Slots
- Designed to MIL-STD-810G & 461E, including Extreme Shock & Vibration Testing for Jet, Helo, Tracked and Wheeled Vehicle Profiles
- Conduction Cooled Chassis w/ MIL Connectors
- -40ºC to +71ºC Operating Temp



FEATURES

CPU:
Low-Power 1.5GHz Intel L7400 Core 2 Duo w/ 2GB RAM

MODULAR/EXPANDABLE:
Internal PC104 Card Cage with up to 6 Spare Slots for PCI104 / PC/104+ cards

MECHANICAL:
• Chassis: Aluminum with Hardened Finish
• Connectors: MIL-C-38999 (I/O) and IP68 (Power)
• Water Proof and Water Tight
• No Moving Parts; Passive Conduction Cooled

POWER:
• Vehicle Grade DC/DC Converter
• Voltage/Surge Protection MIL-STD-704E & MIL-STD-1275D

CONNECTIVITY & I/O:
Gig Ethernet, Fast Ethernet, 6x USB, 2x RS-232 Serial, 1x VGA, 1x LVDS, Audio, PS/2

OPERATING SYSTEM:
Linux / Windows Embedded OS to boot-up out of box

STORAGE:
• Supports up to Two IDE CompactFlash and/or SATA Solid State Disks, including an external eSATA Device
• Removable CF Media Option Eases Secure Data Transfer, Declassification, Servicing, and System Software Updates

MIL-STD-810 COMPLIANCE (Qualification Testing Pending):
Designed to meet MIL-STD-810G (Crash Safety Shock, Functional Shock, Vibration, Temperature, Humidity, Dust and Water Ingress)

MIL-STD-461E COMPLIANCE (Qualification Testing Pending):
Designed to meet MIL-STD-461E for Radiated and Conducted Emissions and Susceptibility

RELIABLE SIGNAL INTEGRITY:
Rugged Near Cable-Less Design Improve Signal Integrity and Reduce Customization Cycle Time for 79-pin Expansion

The DuraCOR® 810-Duo is a rugged multi-core mission processor subsystem designed for high reliability applications requiring MIL-STD-810G environmental compliance with extreme temperatures, shock/vibration, and ingress. Based on a modular, open architecture COTS design with an Intel Core2 Duo CPU, solid state disk, MIL-704/1275 power supply and conduction cooled chassis, the DuraCOR 810-Duo is an ideal computing solution for harsh mobile military and homeland security C4ISR deployments.

To ensure high reliability, signal integrity, and extended environment operation, this high-performance tactical computer comes equipped with sealed MIL-38999 connectors, integrated EMI/EMC filtering, MIL-qualified power supply, watertight conduction-cooled enclosure, aluminium railed card cage, and near cable-less design. The unit is designed to meet and will be qualified to MIL-STD-810G and MIL-STD-461E for insertion into Size, Weight, and Power (SWaP)-constrained aircraft, ground vehicle and maritime platform modernization programs.

Locking MIL circular connectors bring out Gigabit and Fast Ethernet connections, 6 USB ports, 2 RS-232 ports, Dual Video Display (LCD, VGA), Keyboard, Mouse, and Audio signals, as well as an expansion connector for up to 79 signals from optional add-on cards. Up to six expansion slots are available to support Commercial off the Shelf (COTS) PCI-104 or PC/104-Plus modules.

To enable rapid deployment, an industrial-grade CompactFlash (CF) Solid State Disk (SSD) comes ready to boot with Linux or Windows Embedded. Up to Two CF and one SATA interfaces are supported internally without occupying card slots, as well as an external eSATA interface for rugged external storage device. An optional removable media slot eases secure data transfer, declassification, servicing, system software updates or storage capacity upgrades.

Professional services are available from Parvus to deliver semi-custom versions of this product, including mechanical changes and integrated application-specific PC104+ I/O cards (i.e. Ethernet Switch, MIL-STD-1553 / ARINC 429 interface, Video Encoders/Frame Grabbers, GPS Receivers, discrete I/O, etc.).

Parvus

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

DuraCOR 810-Duo



Front View (w/o Removable Media)



Rear View; Conductively Cooled, No Active Cooling Required



Removable CompactFlash Media Option w/Gasketed Cover Plate



Side View (w/ SSD Ejected)

Note: The information in this document is subject to change without notice and should not be construed as a commitment by EUROTECH / Parvus. While reasonable precautions have been taken, EUROTECH / Parvus assumes no responsibility for any error that may appear in this document. All trademarks or registered trademarks are the properties of their respective companies.

Specifications

LOW POWER X86 PROCESSOR	• Intel® Core 2 Duo Processor L7400 • Core Speed: 1.5 GHz • Front-Side Bus-Speed: 667 MHz • L2 Cache: 2048KB Unified • Intel® 945GM chipset
RAM MEMORY	2048MB DDR2 666MHz SODIMM 200pin
SOLID STATE DISK	• Ships with 16GB / 8GB Non-Volatile Industrial CompactFlash, Pre-installed • Support for up to Two (2) Internal IDE CompactFlash and one (1) SATA 1.8" Solid State Disks (SSD) without Taking up Slots in Card Cage • eSATA Interface on MIL-C-38999 for External HDD/NAS Storage Device • Removable CF Storage Media (Behind Sealed Cover on Connector Panel) • Options: Storage Capacity Upgrades (up to ~32GB CompactFlash / ~128GB 1.8" SATA SSD); 2nd Pre-Installed CompactFlash and/or 1.8" SATA Flash Drive; Other Form Factor PATA/SATA Drives in PC104 Card Cage Slots
OPERATING SYSTEM	• Pre-installed Linux / Windows Embedded (120-day Eval License) / Windows 7 • Hardware compatible with all x86 embedded and real-time operating systems (Windows XPe, WinCE, Linux, QNX, VxWorks)
BUS ARCHITECTURE	PCI Bus complying with PCI-104 standard (no ISA)
NETWORK	• 1x 1000Mbps Gigabit Ethernet Interface • 1x 100Mbps Fast Ethernet Interface
SERIAL	2x RS-232 serial ports
USB	6x USB 2.0 ports
KEYBOARD/MOUSE	PS/2 Keyboard and Mouse
AUDIO	AC97 audio set: Line In, Line Out, Microphone
VIDEO	• 1x VGA Analog Video Output • 1x LCD Digital Output (LVDS)
STATUS	Five LED Status/Activity Indicators: One for Power, Four User Definable
POWER	• 24Vdc Battery / 28Vdc Vehicle Power Input Voltage (18V to 33VDC Continuous) • Reverse, Over Voltage, 250V spike, 100V Surge-Protected • MIL-STD-704E, MIL-STD-1275D Compliance • Power Consumption for Base System: <40W Max • Add'l Power Available for Expansion Cards: Approx. 35W • Graceful OS Shutdown Support and Power Switch
ENVIRONMENAL	Designed to Meet MIL-STD-810G (Qualification Testing Pending): • Operating Temperature: estimated -40° to +71°C / -40° to +160°F (MIL-810G, Methods 501,502) • Storage Temperature: -50° to +85°C / -58° to 185°F (MIL-810G, Methods 501,502) • Operating Shock: 40g, 11ms, 3 pos/neg per axis, 18 terminal peak sawtooth pulses (MIL-STD-810G, Method 516) • Random Vibration: 3 Axes, 1 Hour/Axis (MIL-STD-810G, Method 514, Jet/Helo, Ground Mobile) • Humidity: Up to 95% RH @ 40C, Non-Condensing (by analysis)
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 • Cooling: Passive Conductive. No Moving Parts • Weight: <8.0lbs (3.6 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 (Qualification Testing Pending): • CE102, Power Leads, 10 KHz to 10MHz, basic curve • CS101, Power Leads, 30 Hz to 150 KHz, curve 2 (28V and below) • RE102, Electric Field, 10 KHz to 18 GHz, figure 3 for fixed wings < than 25 meters • RS103, Electric Field, 30 MHz to 18 GHz (200V/Meter)

RELIABILITY	• No Moving Parts. Near Cableless Design
	• Mean Time Between Failure (MTBF) per MIL-HDBK-217F @ 25°C / 40°C / 71°C:
	  • 131,966 / 74,160 / 17,903 Hours (Ground Benign, Controlled)
	  • 33,777 / 25,496 / 10,481 Hours (Ground Mobile)

WARRANTY	1 Year RTF Warranty (Extended Service Contracts Available)
STARTER CABLE SET	• Starter Cable Set Provides I/O Break-out for CPU I/O (on J1, J3) and Power Input (on J5): Gigabit Ethernet, 10/100 Ethernet, 6 USB, 2 Serial, VGA, LVDS, eSATA, PS2 Keyboard/Mouse, Power Shutdown Switch • Mates with System MIL-DTL-38999 / IP68 Hirose Connectors to Provide Standard PC-Style Interfaces for Lab or Bench Testing Purposes.
SPECIAL ORDER OPTIONS	• Breakout Cable for User Defined Expansion I/O (on J2) with Subsystem Integration Projects. • Pre-installed 2nd CompactFlash and/or 1.8" SATA Flash Drive • Integrated Data Device Corp (DDC) MIL-STD-1553 Databus Controllers (1 to 4 channels) • Other Integrated PCI-104 or PC/104+ I/O or Datacom Modules • SSD Storage Capacity Upgrades (up to ~32GB CompactFlash / ~128GB 1.8" SATA SSD) • 38999 Connector Caps, Mechanical Changes, Custom Metal Finishes • Program-specific Mil-Certifications / Environmental Testing

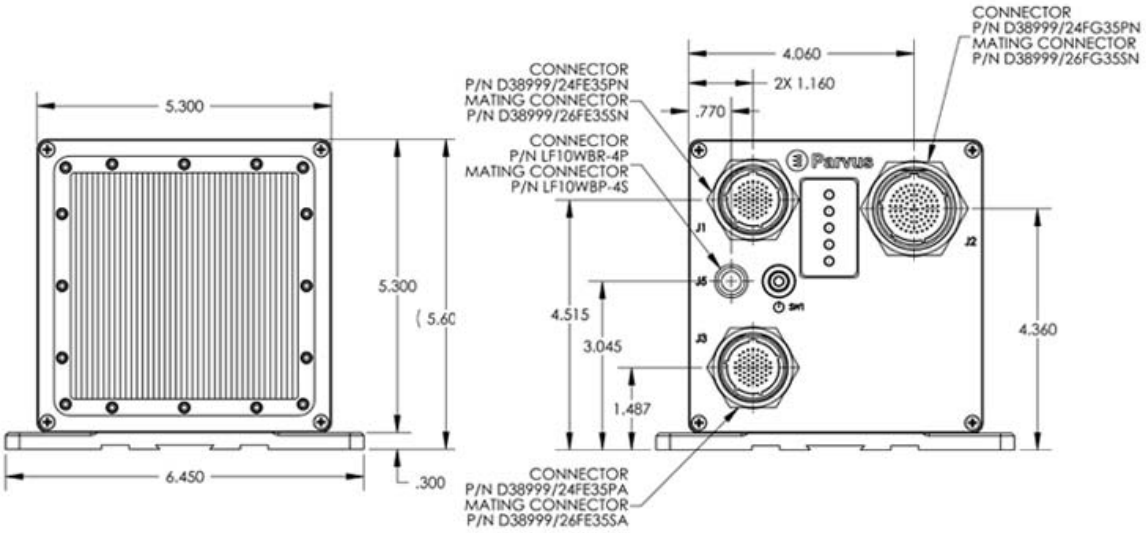
Parvus
Member of Eurotech Group

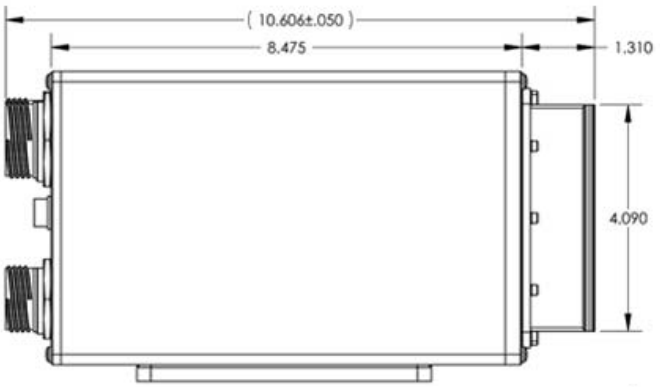
3222 So. Washington Street Salt Lake City, Utah 84115 - USA
+1 800.483.3152 | +1 801.483.1533 | sales@parvus.com | www.parvus.com

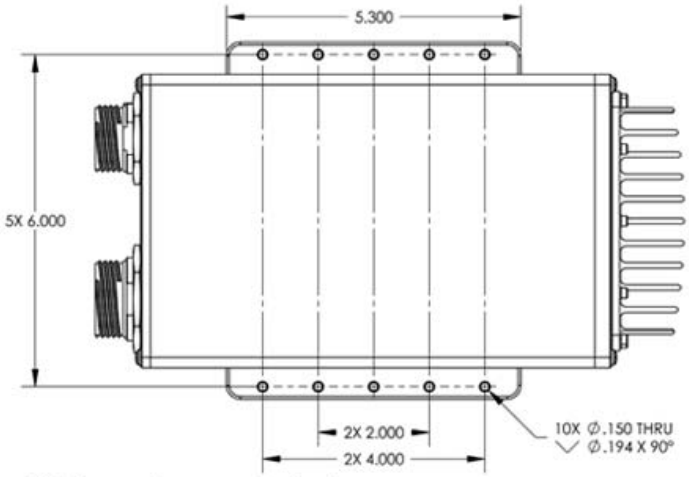
EUROTECH
www.eurotech.com

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Envelope Drawing









All Dimensions are in Inches

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP