CRS-C2I-3VB1

Base Plate Cooled 3U VPX Application Ready Computer

Abaco Systems' CRS-C2I-3VB1 rugged system is a packaged prevalidated data processing and control computer system with a Intel-based processor single board computer that provides a rugged and highly flexible computing platform suited for applications requiring rock-solid reliability such as civilian and military UAVs, manned commercial and military aircraft, helicopters, over- and underwater research vessels, ground vehicles, and locomotives.

Abaco's COTS-based CRS-C2I-3VB1 Application Ready computer system can be deployed in the field as soon as your application is ready, or use the CRS-C2I-3VB1 as a starting point for multiple application specific configurations.

The arduous task of integrating off the shelf boards has already been done for you — shortening your time to project completion. You have one point of contact for all issues and a single part number — not a collection of parts.

The CRS-C2I-3VB1 successfully integrates Abaco's boards, and modules, drawn from their wide selection of COTS boards, into open modular systems that can be tested and qualified for rugged systems deployment. The CRS-C2I-3VB1 contains a fully integrated set of boards and modules designed to fulfill control and data processing applications.

Abaco Systems' Systems Group is fully compliant with AS9100 processes and brings years of experience designing rugged systems to your project. Our world class program management competencies are tailored to help mitigate your risk. Abaco can conduct all design, analysis, manufacturing, and testing in compliance to the appropriate MIL and industry standards such as MIL-STD-810, 704, 461, and DO-160.

Abaco has integrated and tested the CRS-C2I-3VB1 and provides Board Support Packages (BSP's) and drivers that you can easily use to integrate your application and reduce your software development cycle time.

Abaco offers a Product Lifecycle Management (PLM) program of innovative Long-Term Support services to reduce the overall cost of ownership and provide industry-leading safeguards against component obsolescence.

Abaco is committed to supporting customer programs throughout their lifecycle.

The second slot of the CRS-C2I-3VB1 system is designed such that it can support a variety of PMCs. Please contact your Abaco Systems representative to learn more about the various configurations that are readily available.

FEATURES:

- Rugged base plate cooled chassis
  - 2 slot 3U VPX
  - MIL-DTL-38999 connectors
- Intel® 2nd Gen Core™ i7 @ 2.2 GHz
- Linux® operating system
- I/O capabilities
  - Ethernet
  - Serial
  - USB
  - MIL-STD-1553
  - VGA
- Designed for:
  - Military and civilian UAVs
  - Ground vehicles
  - Helicopters
  - Military and commercial aircraft

abaco SYSTEMS

CRS-C2I-3VB1 *Base Plate Cooled 3U VPX Application Ready Computer*

Specifications

Processor
- Intel 2nd Gen Core i7 @ 2.2 GHz

SBC RAM
- Up to 8GB DDR3

SBC Flash Memory
- Up to 32GB NAND Flash

Operating System
- Linux Fedora 14

Cooling
- Base plate

Form Factor
- 3U VPX

Slots
- 2, plus a SSD slot

Dimensions (H x W x D, excludes connectors)
- 3.96 x 7.15 x 9.2 (inches); 102 x 182 x 234 (mm)

Weight
- 12 lbs (5.4 kg)

Input Power (MIL-STD)
- 28VDC (MIL-STD-704F*)

Designed to:

Operating Temperature
- -40°C to +70°C (base plate)

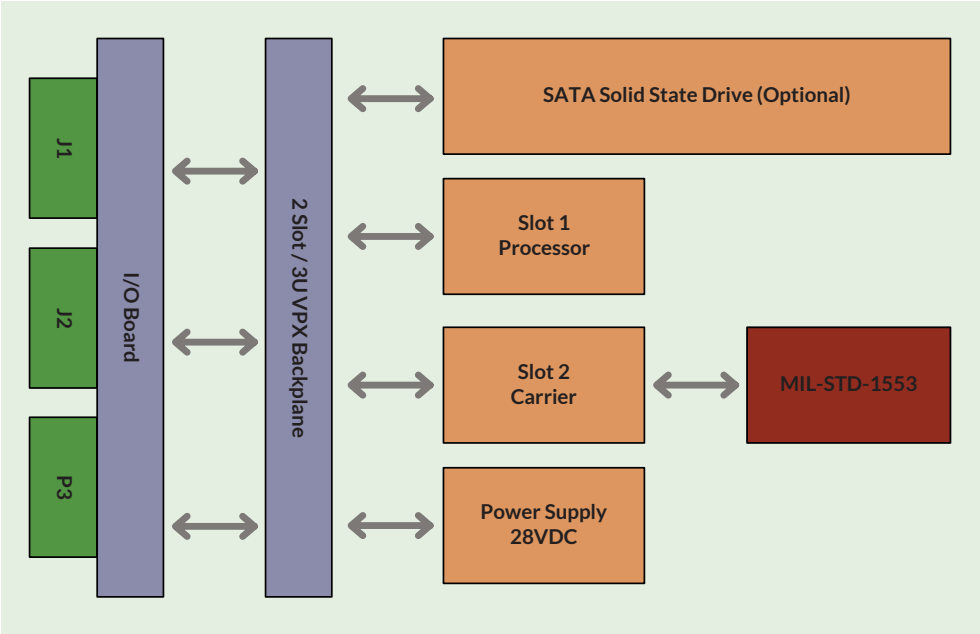
Shock (operational)
- +40g SRS (MIL-STD-810G/1)

Random Vibration
- 0.1g2/Hz, 15-1000Hz; 6dB/octave decrease, 1000-2000Hz (MIL-STD-810F, Method 514.5, Procedure 1)

Humidity
- 95% non-condensing (DO-160 Procedure 6, Category B)

*Hold up is not available

Block diagram



Signal	Quantity
10/100/1000 BaseT Ethernet	Up to 2
RS-422/485	2
USB	2
VGA	1
Audio In/Out	1
GPIO	2
MIL-STD-1553	Up to 4
RT Addr/Discrete	2/18
IRIG In/Out	1
System Reset	1

Ordering information

920-100852-000

WE INNOVATE. WE DELIVER. YOU SUCCEED.

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