Dawn VME Products®

Quality and Performance at its best

Development Chassis: Series DEV-4201

cPCI 2.1 3U DC-3 Development System
Featuring 8-Slot cPCI Backplane

Features

♦ Choice of 32 or 64 bit, cPCI 2.1, Left Hand
♦ Choice of +3.3 or +5 VIO
♦ Conduction cooled card guides available as an option
♦ Dawn's ***RuSH***TM System Health Monitor and Controller with LCD Display
♦ 8-Slot, 3Ux160mm, 1101.10 compatible front card cage
♦ 8-Slot, 3Ux80mm, 1101.11 compatible rear Transition Module card cage
♦ Choice of Power Supply
   (See rear side for supplies available)
♦ High-Performance Cooling with 8 fans in Push/Pull
♦ Front mounted power switch
♦ Table top rubber feet
♦ Fully assembled, wired and tested
♦ Ready for Plug and Play

Overview

Dawn's cPCI Development System for 3U boards represents the latest in state-of-the-art technology. It offers a capability of configuring up to an 8-Slot system that supports any mix of 3U convection or conduction cooled boards and 3U transition modules on .8 inch centers along with an advanced capability to support high current demands and corresponding high cooling requirements.

A 400 watt ATX style power supply is provided standard. Optional power systems are available if desired. Cooling is delivered equally at each slot with up to 400 LFM across the boards with no dead spots.

This portable chassis is attractive and travels well between the bench top, the trade show, and your customers, allowing you to test and demo your new boards.

Chassis side panels are removable for side board access and probing. Air flow through board area provides adequate cooling for even high power boards.

Onboard ***RuSH***TM System Health Monitor and Controller provides for monitoring of system environmental conditions and control of power supply and fans. On-board RS-232 and RJ-45 Ethernet connections allow for local or remote access and system control. SNMP is available as an option.

When compared to cPCI development systems available from other manufacturers, the DC-3 offers substantial additional features and at lower overall cost making it the best value in a cPCI development system available today.

Specifications

Mechanical

Compatibility: Rails and card guides, IEEE 1101-10/11
Material: Aluminum 5052-H32/6061-T6
Finish: Cardinal Industrial Finish: C241-BK01, Color: Black
Plating: Clear Alodine 1500
Dimensions: 14.75"H x 9.0"W x 11.75" D (With handle 16.75"H)
Weight: Estimated at 23lbs. (Depends on Power Supply)

Electrical

Compliance: cPCI electrically compliant with Picmg 2.0 Revision 2.1 Specification
Power Input: Standard IEC connector and 15A power cord
Power Supply: See rear, Dawn offers a range of choices to meet customer requirements.

Environmental

Storage Temperature: -20^{0}C to +85^{0}C
Operating Temperature: 0^{0}C to +50^{0}C
Humidity: <95% non-condensing
Cooling: 15.8 CFM per slot across 8-Slots @ .24 inches of H^{2}O

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Ordering Information

11-1014201 – **W**   **X**   **Y Z**

W
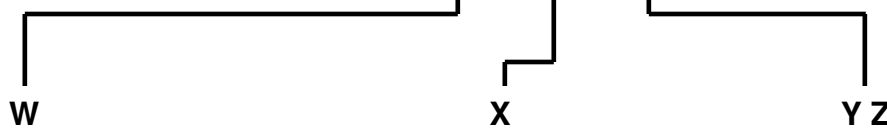
Power Supply (Select Option based on current required)

Option	+3.3V	+5V	+12V	-12V	Replacement P/N	Style
1	30	30	11.5	1	50-1016401	ATX
2	35	35	10	4	50-1010100	MP-4
3	35	60	10	4	50-1009958	MP-4
4	60	35	10	4	50-1010650	MP-4
5	50	40	20	5	50-1016132-1111	Excelsys

X

Feature Options
0 = Rush is Installed
1 = No RuSH Installed (Not Recommended)

Y Z

Backplane Architecture
01 = cPCI 8-Slot, LH, 32Bit, +3.3 VIO
02 = cPCI 8-Slot, LH, 32Bit, +5 VIO
03 = cPCI 8-Slot, LH, 64Bit, +3.3 VIO
04 = cPCI 8-Slot, LH, 64Bit, +5 VIO

Side View

Rear View
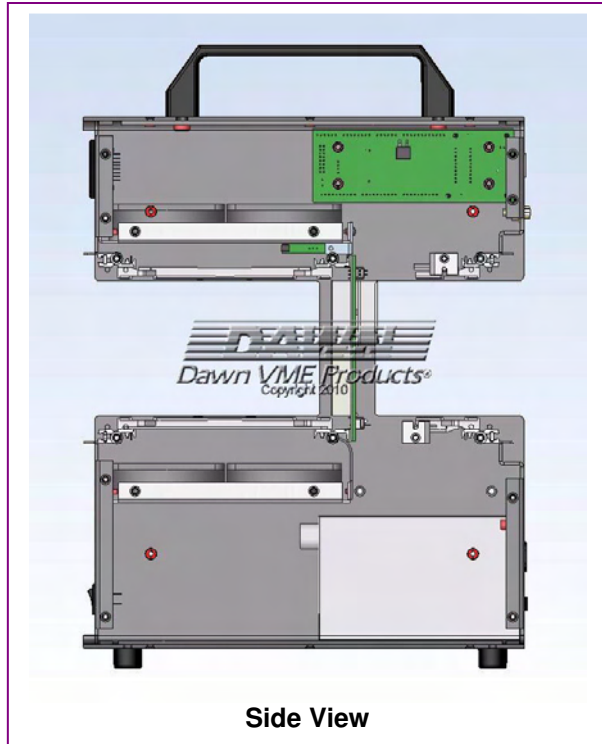
Other Products and Services Available from Dawn:

- Conceptualization, design and production of custom enclosures and backplanes.
- Conduction or Convection Cooled ATR Chassis Design and production
- Thermal Design and Analysis
- Microprocessor based sensor monitoring and control.
- Technologies Supported: cPCI 2.1, cPCI 2.16, PXI, VME, VME64, VME64x, VXI, VXS(Vita 41), VPX(Vita46), VPX Redi(Vita48), Open VPX(Vita65)

About Dawn:

Dawn is a certified veteran owned small business based in Fremont, CA. serving the real time computer and embedded systems market.

Dawn specializes in conceptualization, design, and production of high-technology enclosures and backplanes for thousands of companies within the commercial, industrial, aerospace and defense markets. Our customers consist of Major OEM's, National Labs, Universities, aerospace and defense contractors, our competitors and the U.S. Government.

Our Quality Standards are designed and tuned to support the needs of the vast market we serve.

Dawn celebrated its 25th anniversary of business on February 19, 2010.