

Quality and Performance at its best

VITA 62 Compliant 3U Power Docking Board

Used for adding Power Supply Backplane to VPX System

Features

- Design allows for up to 4 per system to support high current applications
- Power connector and Studs provided for connecting power to backplane
- Separate assemblies support AC or DC operation
- Jumper options for GA and EN
- Single Connector (J1) monitors all power, control, and communications
- Fully assembled and tested









AC Version

DC Version

Overview

Dawn's PSD-6362 Power Supply docking board provides all necessary features and functionality required to add a 3U power backplane to a VPX system. The board mounts on 1 inch pitch within any 3U chassis conforming to the VITA VPX Standard. Plugin power supply docking is provided via a VITA 62 connector and guide pins keyed appropriately to accept AC or DC input. Six channels of power may be wired between connectors for 3.3V AUX, +12V AUX, and -12V AUX, and studs for the main power channels PO1, PO2, and PO3. Bus bars may be used to connect docking boards in parallel for up to 4 power supplies per system. A single connector (J1), intended for monitoring, is provided to access all power, control, and communications provided by the VITA 62 standard. Current share and Remote Voltage sense are provided in a separate connector. Option pins are provided to set individual board geographical address (GA) and forced enable (EN). Mounting hardware through the center hole electrically connects backplane to chassis ground.

Technical Specifications Mechanical

Compatibility: VITA 46, VITA 62, VITA 65, Material: FR-370HR Laminate RoHS, copper clad Finish: Green Matte Finish LPI Soldermask Plating: Copper/Electroless Nickel/Immersion Gold Vita 62 Keying: AC Version Key 1=270°, Key 2=45° DC Version Key 1=0°, Key 2=0°

Dimensions: 5.057" L x .980" W x 1.625" H

Weight: .192 Lb./ .085 Kg.

Electrical

AC Input: 90 – 265 VAC 50 – 400 Hz

DC Input: 28VDC or 48VDC

PO1-PO3 Outputs: P01 & P03 = 50A P02 = 20A

Auxiliary Outputs: via Molex 70543 3-pin connector @ 3 Amp per pin

IShare/Sense: via Molex 70543 7-pin connector

Monitor Output: Molex 501190-3017 30-pin connector @ 1 Amp per

pin max

Environmental

Flamibility: UL94VO

Storage Temperature: -40°C to +85°C Operating Temperature: -40°C to +85°C Humidity: <95% non-condensing

Mating Connectors

J1: Onboard Molex 501190-3017 mates with Molex 501189-3010 and crimp contacts Molex 501193-3000

J3: Onboard Molex 70543-0002 mates with Molex 50-57-9403 and crimp contacts Molex 16-02-0102

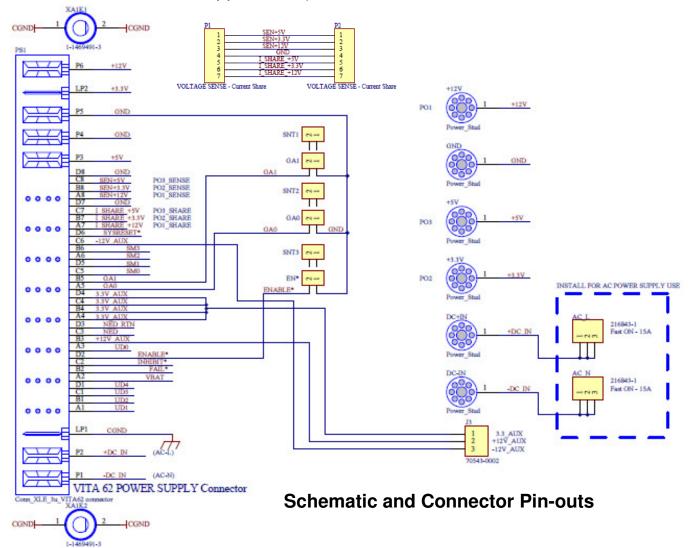
P2: Onboard Molex 70543-0006 mates with Molex 50-57-9407 and crimp contacts Molex 16-02-0102

PS1: Onboard Tyco 1-6450869-4 mates with Tyco 6450849-7 K1,K2: Onboard Guide Pin Tyco 1-1469491-3 mates with Tyco 1-1469492-1



Ordering Information

For AC applications, Order P/N 06-1016362 – **AC** For DC applications, Order P/N 06-1016362 – **DC**



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.
- Supported Platforms Include: cPCI 2.1, cPCI 2.16, PIXIE, VME, VME64, VME64x, VXS(Vita 41), VPX(Vita 46), VPX Redi, Open VPX(Vita 65)

