

Quality and Performance at its best

### VITA 62 Compliant 3U Power Docking Board

Used for adding Power Supply Backplane to VPX System

### **Features**

- ♦ 500W power capability per unit
- 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**

Maximum Power: 500W per VITA 62 Standard

**AC Input:** 90 – 265 VAC 50 – 400 Hz

DC Input: 28VDC or 48VDC

PO1-PO3 Outputs: Up to 500W via 6 x 32 Studs Auxiliary Outputs: via Molex 70543 3-pin connector IShare/Sense: via Molex 70543 7-pin connector Monitor Output: Molex 501190-3017 30-pin connector

#### **Environmental**

Flamibility: UL94VO

Storage Temperature: -40°C to +105°C

Operating Temperature: -40°C to +105°C, except J1 monitor

connector rated at -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

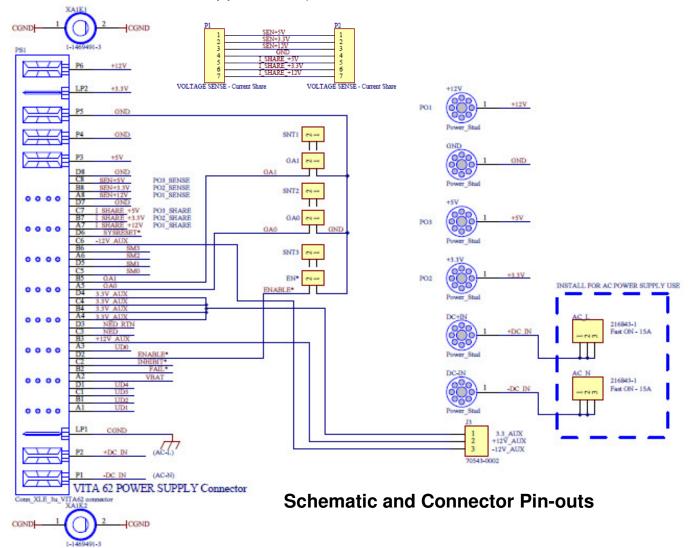
**P2:** Onboard Molex 70543-0006 mates with Molex 50-57-9407 and crimp contacts Molex 16-02-0102

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)

