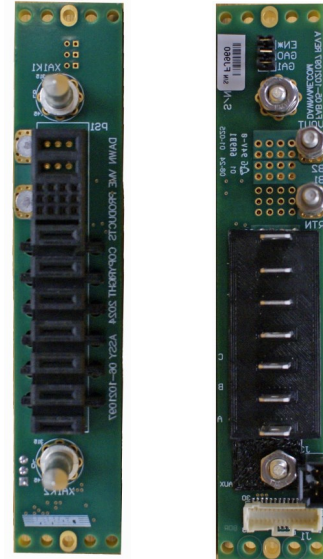


VITA 62.1

Used for adding Power Supply Backplane to VPX System

Features

- ◆ Power connector and Studs provided for connecting power to backplane
- ◆ Assemblies supports 3 Phase AC operation
- ◆ Jumper options for GA and EN
- ◆ Single Connector (J1) monitors all power, control, and communications
- ◆ Fully assembled and tested



Overview

Dawn's PSD-1097 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 62.1 connector and guide pins keyed appropriately to accept AC, and studs for the main power channels PO1. A single connector (J1), intended for monitoring, is provided to access all power, control, and communications provided by the VITA 62.1 standard. Option pins are provided to set individual board geographical address (GA) and forced enable (EN). Mounting hardware through the center hole electrical-ly connects backplane to chassis ground.

Technical Specifications

Mechanical

Compatibility: VITA 62.1

Material: FR-370HR Laminate RoHS, copper clad

Finish: Green Matte Finish LPI Soldermask

Plating: Copper/Electroless Nickel/Immersion Gold

Vita 62 Keying: AC Version

DC Version Key 1=0_o, Key 2=0_o

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

PO1 Outputs: PO1

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

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

Environmental

Flamibility: UL94V0

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

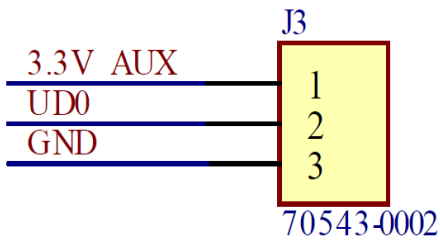
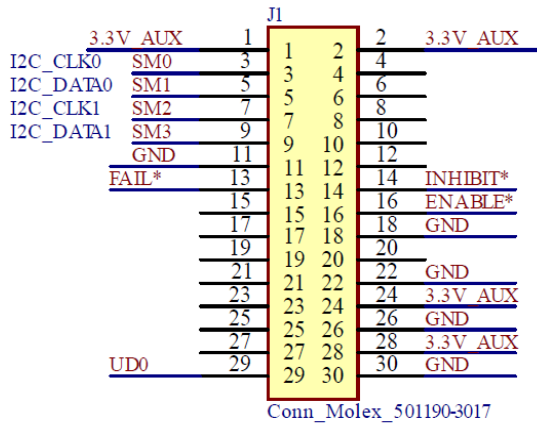
PS1: Onboard Tyco 2332795-1 mates with Tyco 2332793-1

K1,K2: Onboard Guide Pin Tyco 1-1469491-3 mates with Tyco 1-1469492-x

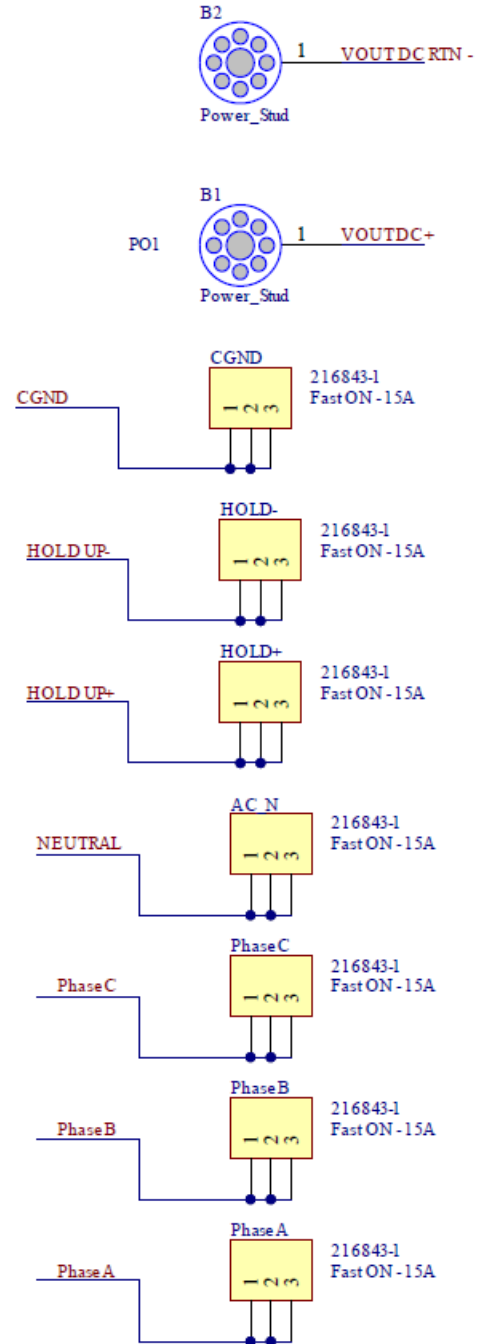
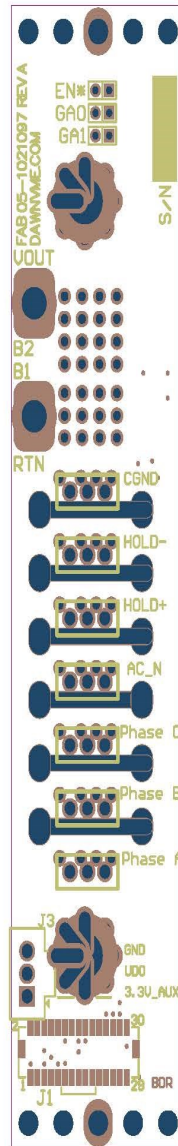
Ordering Information

For AC applications, Order P/N 06-1021097

VPX 3U POWER BACKPLANE PSD-1097



PCB Rear View



VPX 3U POWER BACKPLANE PSD-1097

