

VITA 62 Compliant 3U Power Supply for Air or Conduction Cooled Systems

Features

- True 6 Channel supply provides full Open VPX support
- Available in Air cooled, Bulkhead conduction cooled, and
 Devenue Cide Worker last approximation applied model
- Reverse Side Wedge lock conduction cooled models Up to 400 Watts power output with 1 inch pitch form factor
- Up to <u>400 Watts</u> power output with 1 inch pitch form factor
 Onboard embedded *RuSH*[™] technology actively monitors voltage, current, temperature and provides protective control
- Factory programmable power sequencing of all voltage rails
- Shutdown control for each power rail
- Over Voltage, Over Current, and Over Temp protection
- Current/Load share compatible with up to 4 PSC-6234 units
- I²C interface for Status & Control
- Standard INH# and EN# power control signals
- VBAT for support of VPX memory backup power bus
- Front I/O panel includes LED status indicator, USB port for firmware upgrade and VBAT battery access
- VITA48.2 Compliant Inject / Eject levers for easy installation

Overview

Dawn's VITA 62 Compliant PSC-6234 is designed to operate in a military environment over a wide range of temperatures at high power levels. Models available include air cooled, conduction to wedge lock cooled and conduction to bulkhead cooled, applications and configurations.

Dawn's embedded RuSH™ (Rugged System Health Monitor) technology provides the "smarts" for monitoring and control of critical system performance parameters including Voltage, Current, Temperature and control of power sequencing and shutdown of all voltage rails.

Custom firmware enables additional features such as monitoring shock /vibration events or customer specified monitoring windows, power sequencing, alerts, alarms, status and control, etc.

The RuSHTM monitor is interfaced into the OpenVPX (l^2C) management plane, providing an l^2C communication link with system cards.

Optional LED / Status / Power Good output. Custom power capacity and voltage input range configurations available. Contact factory for additional information.

Specifications

Mechanical

Extended Shock and Vibration Per MIL-STD-810F Card Guide style and Mounting: .062 PCB or VITA 48.2 WedgeLocks Connector: VITA 62 Compliant power connector TE 6450849-7 Dimensions: Standard 1" Conduction cooled form factor Weight: 1.65 Lbs/ 0.7478 Kg. Inject & Eject: VITA 48.2 compliant inject and eject features Covers: ESD protected inputs and robust covers on both sides of the board, accommodate military two-level maintenance

Electrical

MIL-STD-704F: 50 mSec holdup Caps provided on separate module Input Voltage: 18-36VDC, 36-75VDC Voltage Rails: +12V (PO1), +3.3V (PO2), +5V (PO3), +12V_AUX, -12V_AUX, 3.3V_AUX, VBAT (+3.0V typical) Output Current for Each Voltage Rail:

Input Max Output Current (Amps) for each channel						
Voltage	12V(PO1)	3.3V(PO2)	5V(PO3)	3.3V_AUX	+12V_AUX	-12V_AUX
24V/48V	16.7	30	40	4	4	3

Wattage Max +5V rail: 200W@28 or 48 V input Wattage Max +12V rail: 200W@28 or 48 V input Total Maximum Power: 400W@28 or 48 V input Ripple: <45mVp-p on +3.3V and +5V, <2mVp-p on +12V and -12V Isolation Voltage: Input to Output (1500V)

Environmental

Storage Temperature: -40° C to $+100^{\circ}$ C Operating Temperature: -40° C to $+85^{\circ}$ C (at the Wedge lock edge)

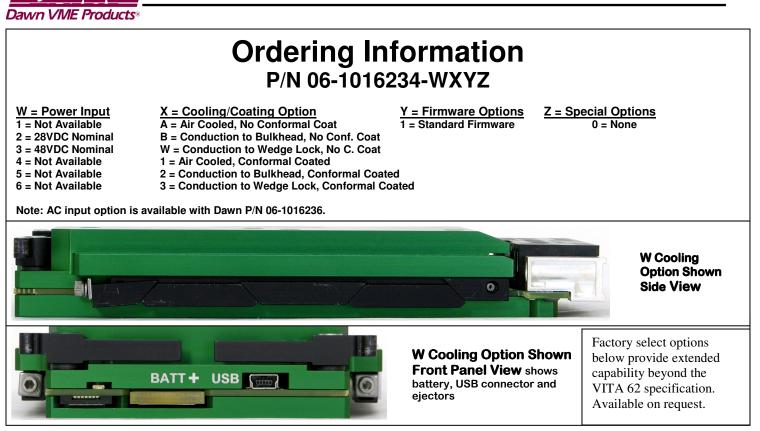
Power supply output dependant on chassis cooling capability

CA 94539 ph

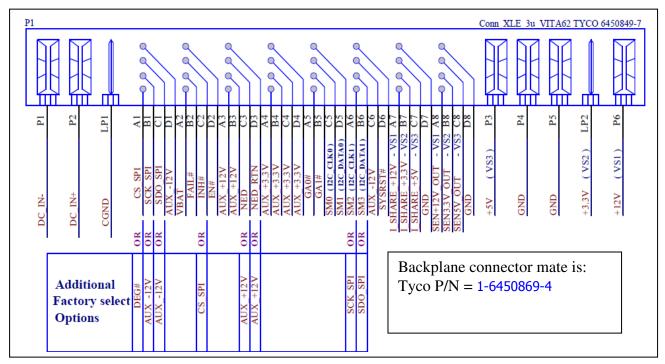
phone 510-657-4444

www.dawnvme.com





(Connector pin out - VITA 62 Compliant - Card Connector Face View)



Other Products from Dawn:

Card cages and enclosures for commercial, aerospace and military applications

Enclosure 3D solid model design, manufacturing and production from commercial to full-rugged conduction cooled military Custom and Standard product PCB design, layout, production

RuSH[™] Rugged system health monitor,

Backplanes for **cPCI 2.1, cPCI 2.16, VME, VME64x, VXI, VXS, VPX, CUSTOM,** Build to Print Powered Enclosures for Development, Prototype, Production, Deployment Prototype Boards, Extender Boards, Form Factor Extenders, Front Panels, Filler Panels, Custom Panels, Build to Print Panels, Build to print machining, fabrication and assembly