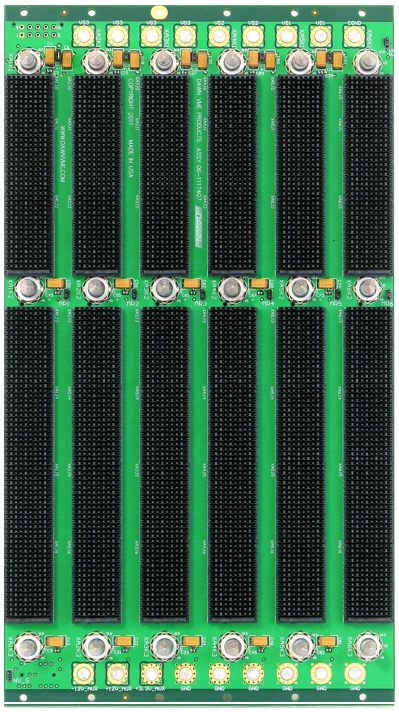
VPX Development Backplane: VPX-7407

6U VPX Development Backplane 1.0 Inch Pitch
6-Slot Fabric Mappable

OpenVPX™



Features

- Backplane Topology BKP6-DIS06-11.2.10-n
- Switch Profile SLT6-SWH-4F24T-10.4.4
- Payload Profile SLT6-PAY-4F2T-10.2.2
- 6U OpenVPX compliant, 1" pitch
- Topology includes Utility Plane with Pwr/Gnd, IPMB, and PCI express daisy chain (See rear side map)
- Backplane supports additional topologies via Dawn's Fabric Mapping Module* (FMM*) micro-overlays
- Additional mapping such as custom PCIe, SRIO, and Ethernet is available and may be added to backplane at time of order
- Ultra-high performance stripline / differential signal design.
- User configurable slot key rotation for VPX Cards and RTM.
- Design supports RTM connectors at all rear slots.
- Tyco Connectors may be partially populated for cost savings.
- Integrated connectors for RuSH system monitor interface.

** = Patent Applied For*

Overview

According to the VITA65 specification, BKP6-DIS06-11.2.10-n backplane profiles are intended for development environments. Some systems might be able to deploy with these backplanes. This backplane contains 5 Payload Slots and 1 Control Plane or Switch Slot. Payload Slot Profile for all slots is SLT6-PAY-4F2T-10.2.2. Switch Slot Profile is SLT6-SWH-4F24T-10.4.4. The data plane is distributed whereas the control plane is switched.

Dawn's implementation of this profile allows for a choice of RTM connectors or use of FMM* modules. Custom FMMs* loaded with standard COTS connectors, can provide low profile signal breakout for applications where transition module cost and size do not work.

See separate FMM data sheet for specifics.

Specifications

Compliance
Dawn's 7407 Series VPX Backplanes are designed to be compliant with the following released standards and June 2010 state of draft specifications: VITA 46.0, VITA 46.1, VITA 46.3, VITA 46.4, VITA 46.6, VITA 46.7, VITA 46.9, VITA 46.10, VITA 46.11, VITA 48.0(REDI), VITA 48.1(REDI Air Cooling), Vita 48.2(REDI Conduction Cooling), VITA65.0(Open VPX) ready

Mechanical
Compatibility:VITA46.0,.3,.4,.7,.9 / VITA48, VITA65 (OpenVPX) ready
PCB Material: PCL-FRP-370HR RoHS compliant
PCB Design: 22-Layer, Ultra high performance, impedance controlled stripline / differential signal routing.
Power/Ground Planes: Multiple, 2 oz. copper layers for each VSx supply.
Signal: 1 oz. copper
Finish: LPI Green Solder mask
Plating: Gold over Nickel (ENIG)
Dimensions: 10.317" x 4.765", 0.212" Thick.
Weight: 3.00 Lbs Estimated fully populated

Electrical
Power Input: #6 Ring Terminals on 6x32 Press-fit power studs
Max. Power Input per Rail: Vs1, Vs2, Vs3 = 100A
Max. Concurrent Power (Vs1, Vs2, Vs3) per Slot = 22A
Continuous Distributed Power per Slot: VS1 (+12v)=14A, VS2 (+12v)=14A, VS3 (+5v) =15A.
Maskable Reset: Selectable connection of maskable reset to each slot.
System slot: Select any VPX slot, to be system slot, via jumper.

Environmental
Storage Temperature: -40^{0}C to +105^{0}C
Operating Temperature: -40^{0}C to +105^{0}C
Humidity: <95% non-condensing

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Revision 4/17/12

Ordering Information
Order P/N 06-1117407

Note: P/N 06-1117407 ships with DEV-4407 Development Chassis and includes all RTM connectors and no FMM's
(Contact Factory for details if you would like additional topology added to this backplane)

Backplane Topology – BKP6-DIS06-11.2.10-n