

# VPX 3U / 6U Extender cards



## Features

- ◆ Front panel on/off switch with RGB LED status indicator
- ◆ Fits enclosures designed for 1.0" pitch boards
- ◆ Supports extension of either .8" pitch or 1" pitch boards
- ◆ Onboard embedded RuSH™ technology actively monitors Voltage and Current, and provides protective control
- ◆ IEEE1101.10/11 Inject/Eject levers aid insertion/extraction
- ◆ System reset button ◆ DB-15 Port for attachment of LCD Status Display

## Overview

Designed specifically for the Open VPX market, Dawn's EXB-7xxx extender Family of products is designed to provide a safe and secure environment for your boards under test. Models are available to support signals for either VME over VPX (VITA 46.1) or Differential pairs (VITA 65).

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

This product can be used to quickly and easily measure and profile the normal current used on each voltage rail. Thresholds can be set to instantly shut off power on any voltage rail should current limits be exceeded by any board under test effectively protecting both the board and system from damage caused by short circuits.

Switches and I/O connectors provided for On/Off, System Reset, LCD Display, Fans, and Serial Communications (RS232 or USB).

The EXB-7xxx extender Family of products are state-of-the-art VPX extender boards for today's state-of-the-art VPX systems.

## Convection Cooled



3U Part Number;  
11-1017471

6U Part Number;  
11-1017458

## Mechanical

Card Cage Construction: Aluminum extrusions and machined plate  
Card Guide style and Mounting: 1101.10/11 compliant  
Connector: Per 3U/6U VPX Standard Dimensions: 0.8 inch pitch 6U x 160mm form factor  
Weight: 3U~ 3Lbs/ 6U~ 6Lbs. Inject & Eject: IEE-E1101.10/11 compliant  
inject and eject features  
Covers/Side plates: Designed to allow access to both sides of DUT.

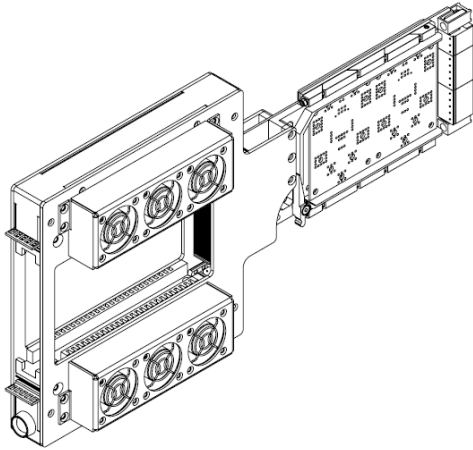
## Electrical

Input Voltage: Per VITA 46 Input Current: Designed to support maximum allowed per VPX spec  
Voltage Monitor: 6-Channels, continuous, 100mV resolution  
Current Monitor: 6-Channels, continuous, 0.5A to 30A in 0.1A increments  
Voltage and Current High/Low Thresholds: Customer settable via RS-232  
Shutdown Trigger Condition: 20% over threshold for 500mSec  
Reset Time: Variable 0 to 1000mSec after all Voltage in range  
Signal Type extended: Differential or single ended depending on version ordered

## Environmental

Storage Temperature: -40C to +100C  
Operating Temperature: -40C to +85C  
Operating Humidity: Up to 98% Non-Condensing

## Conduction Cooled



**3U Part Number;  
11-1017332**



**6U Part Number;  
11-1017632**

### **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