Dawn VME VPX Overview

SYSTEM PACKAGING EXPERTS

Visit our website @
www.dawnvme.com

DAWN SPEAKS VPX LOUD AND CLEAR!

"You provide the idea. We provide the Solution"

Dawn VME's Continually Growing Family of VPX Products!

3U & 6U Development Chassis

AVAILABLE AS CONDUCTION COOLED

DEV-4200   **DEV-4135**

3U/ Table Top or Rack Mount

RME-5849

6U/ High Power Rack Mount

RME-6460

3U/ 2-16 Slots

NEW

RME-6430

6U/ 5 Slot RM

RME-5506

3U/4-18 Slots Desk Top or RM

1290 Series

Conduction and Air Over Conduction Solutions

3U/ Air Over Cond.

ATR-5700

3U/ Cond.

2 Slot

3U/Cond.

9 Slot

6U/ Air Over Cond.

1200 Watts / Drive Bay

3U/Cond.

Available in 1-6 Slots

3U/Cond.

3 Slot

6U/ Air Over Cond.

8 Slot / 1000W

If you do not see
what you are looking
for, please ask.
Our product offering
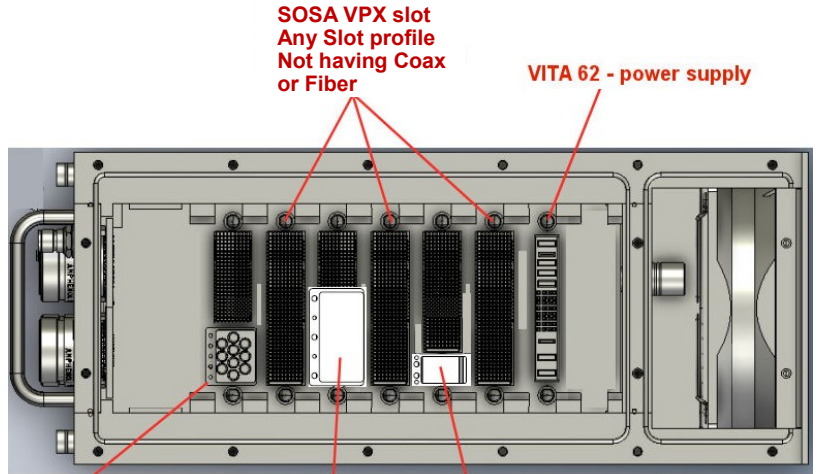is expanding daily!

Rev. 06/22/2023

Dawn VME's 3U, Rapid Deployment Chassis Solutions (12 weeks)

All chassis are configurable with single slot backplanes and Meritec VPX cables / coax / fiber for quick turns.
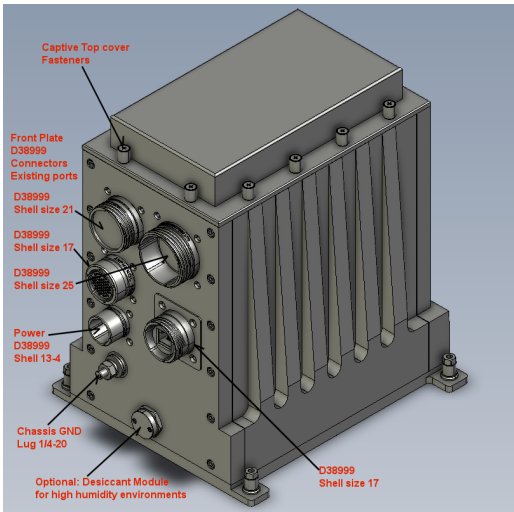
3U/ Air Over Cond.
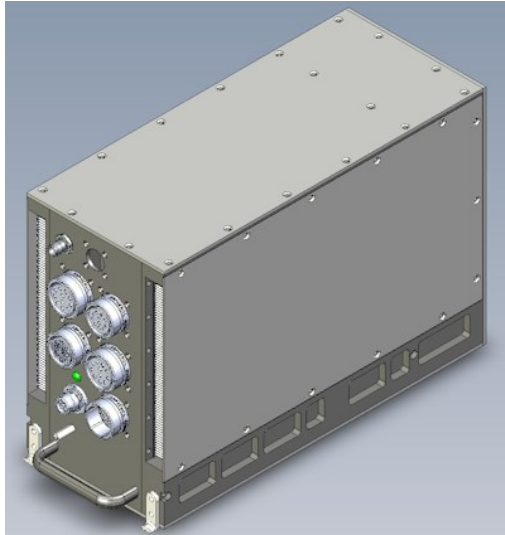
RPDC-786

SOSA VPX slot
Any Slot profile
Not having Coax
or Fiber

VITA 62 - power supply

SOSA VITA67.3C
Any Slot profile
Having VITA65
Aperture Pattern H

SOSA VITA67.3E
Any Slot profile
Having VITA65
Aperture Pattern K

SOSA VITA67.3D
Any Slot profile
Having VITA65
Aperture Pattern J

3U/ Conduciton Cooled

Captive Top cover Fasteners

Front Plate
D38999
Connectors
Existing ports

D38999
Shell size 21

D38999
Shell size 17

D38999
Shell size 25

Power
D38999
Shell 13-4

Chassis GND
Lug 1/4-20

Optional: Desiccant Module
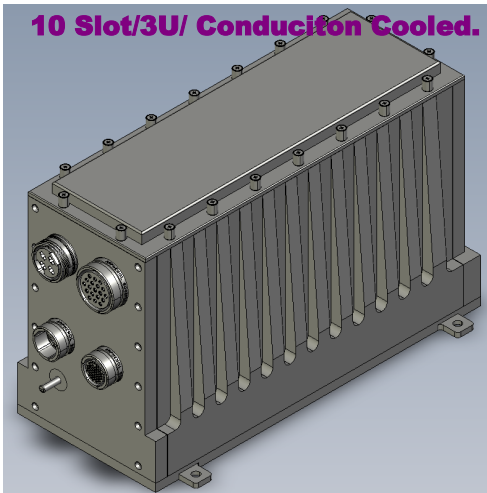for high humidity environments

D38999
Shell size 17
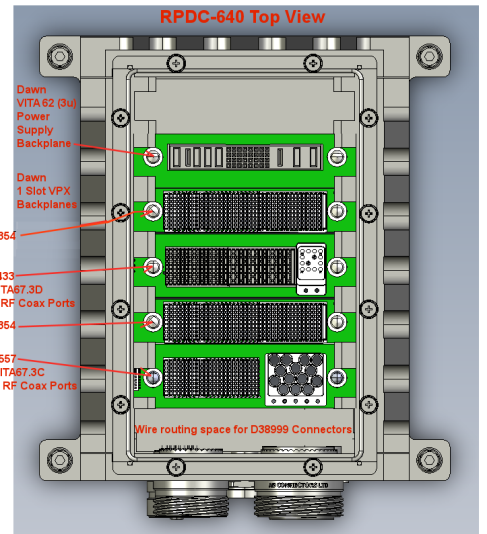
RPDC-640
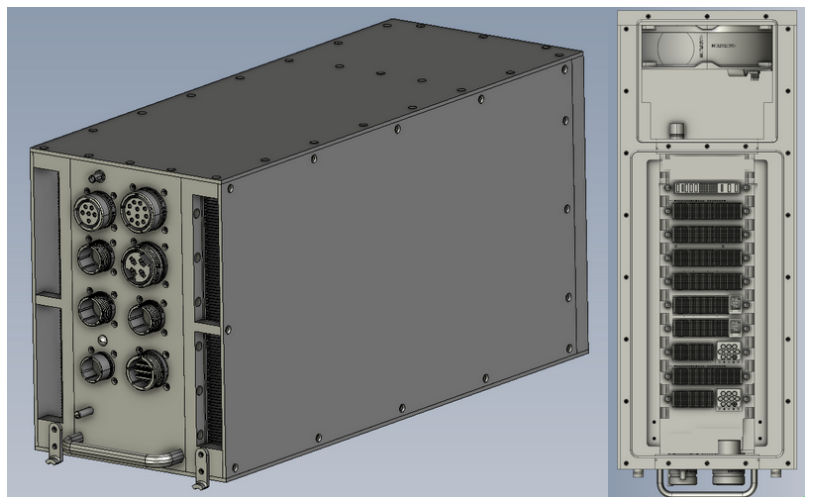
RPDC-640 Top View

Dawn
VITA 62 (3u)
Power
Supply
Backplane

Dawn
1 Slot VPX
Backplanes

06-1020354
3u VPX

08-1020433
VPX + VITA67.3D
up to 12 RF Coax Ports

06-1020354
3u VPX

06-1020557
VPX + VITA67.3C
up to 19 RF Coax Ports

Wire routing space for D38999 Connectors

10 Slot/3U/ Conduciton Cooled.

RPDC-1012

3U/ Air Over Cond.

RPDC-656

Dawn VME's 3U, 400Watt, VPX Vita 62 Compliant Power Supplies

Dawn VME VPX Overview

PSC-6238
New 800 Watts

18-36VDC Input

PSC-6234

18-36VDC Input

HLD-6724

50mSec Holdup Module

PSC-6236

90-264VAC Input

HLD-6726

50mSec Holdup Module

PSC-8742
NEW

VITA62 Compliant 264W

PSC-6229

24-48VDC Input

PSC-6234

Air Cooled

85-264VAC Input

PSC-6236

Air Cooled

90-264VAC Input

PSC-6265

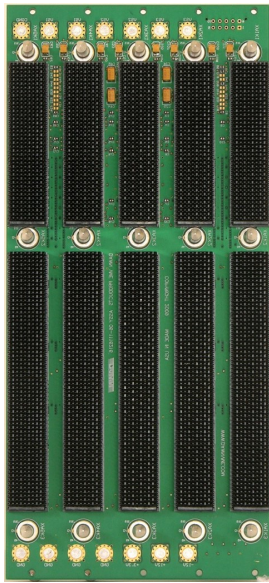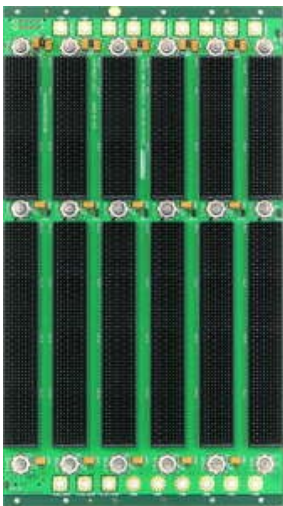**6U**

85-265VAC Input
580 Watts

HLD-6265

Mil - STD 704
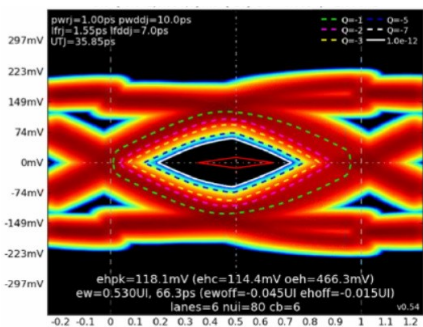50mSec Hold Up Module

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VPX-7135

VPX-7136

Dawn Gen3, 3U/6U OpenVPX Backplanes Designed For True Signal Integrity At Up To 10.3 Gbaud Performance

Dawn's 598x Series VPX backplanes are designed to be compliant with the following released standards and December 2015 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(REDIConduction Cooling), VITA65.0 (OpenVPX) ready.

VITA 68 backplane models are available on request for system simulation.

Dawn VPX598x Series Gen3 3U OpenVPX Backplanes Summary of Features;

- 3U OpenVPX compliant, 1" pitch.
- Supporting PCIe Gen3 and 10 GbE (XAUI).
- Designed for signal integrity at up to 10.3 Gbaud performance.
- Multiple connector choices, including a high vibration option.
- Terminal block and bus bars to facilitate any desired power supply.

Easy to Configure
The VPX598x Series offers multiple connector choices from the leading connector vendors, Tyco and EPT.
Options include the Tyco MULTIGIG RT 2 and MULTIGIG RT 2R ruggedized connectors and the EPT Velox® connectors. Amphenol RVPX or Viper connectors available on request.
Any standard power supply can be configured with the VPX598x Series, using its available terminal block and bus bars to facilitate the power connection.
Applications Supporting PCIe Gen3 and 10 GbE (XAUI) and the most advanced Gen3 bandwidth module configurations.
Dawn VPX598x Series Gen3 3U OpenVPX Backplanes deliver robust signal integrity at Gen3 bandwidths with multiple connector choices, including a high vibration option.

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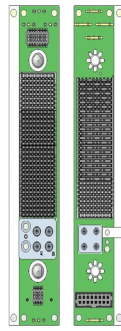
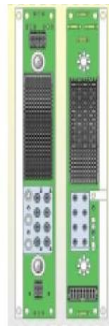**Single slot backplanes**
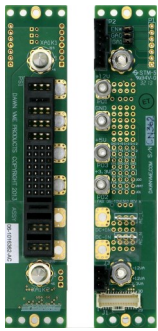
VPX-6362
3U
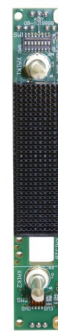Power Supply
Backplane

VPX –8867

VPX –7997
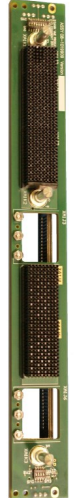
VPX –8867

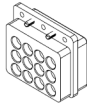VPX –8467

VPX –9518

VPX –9998

VPX – 8805
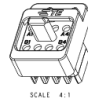
VPX – 9909

VPX –7998

NEW SV Microwave makes a 67.3C which has 12 coax contacts P/N SF9321-60083

NEW Dawn also has a NanoRF BP (for 8 coax version). (Tyco P/N 2828434-1)

SCALE 4:1

NEW **SOSA Profiles Available**

Standard 3u VPX (VITA65/46) (25Gbps Tyco RT3) = 06-1020354   (SOSA) - Slot Profile SLT3-PAY-1F1F2U1TU1T1U1T-14.2.16 and similar
(Slot Profile SLT3-SWH-6F8U-14.4.15 or SLT3-SWH-6F1U7U-14.4.14 or SLT3-PAY-2U2U-14.2.17 or SLT3-PAY-2F2U-14.2.3 or SLT3-PAY-1F1F2U1TU1T1U1T-
14.2.16 & Similar with no VITA65 "Aperture" connector hole.)

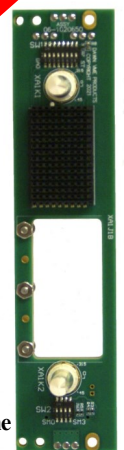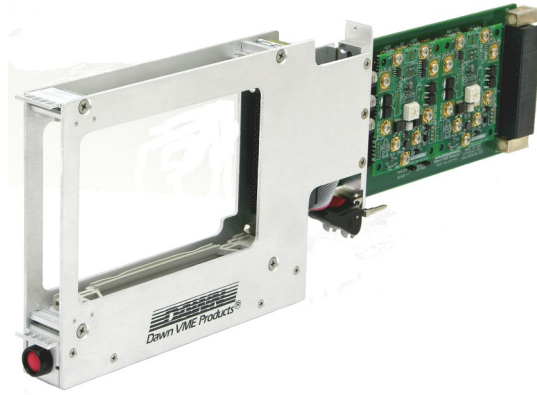**VPX+ (VITA67.2 (aka VITA67.3 Type B)** (aka V65 Aperture G) = 06-1118867-01
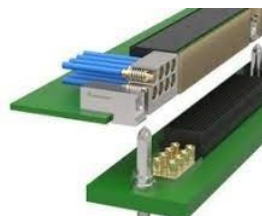
VPX 8867

VPX 8867

VPX 0650 SOSA 3U Backplane

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Dawn VME VPX Overview
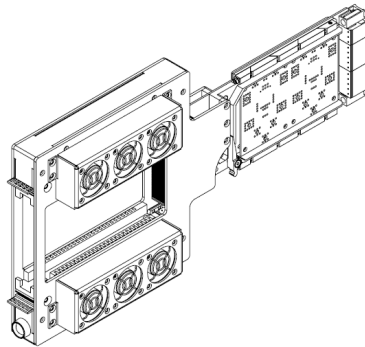
Convection Cooled

3U Part Number;
11-1017471

6U Part Number;
11-1017458

Conduction Cooled

3U Part Number;

6U Part Number;
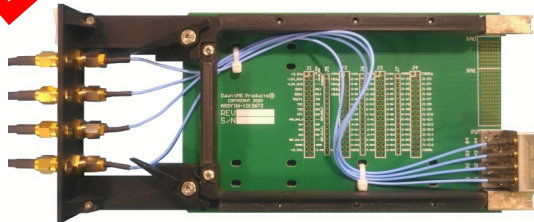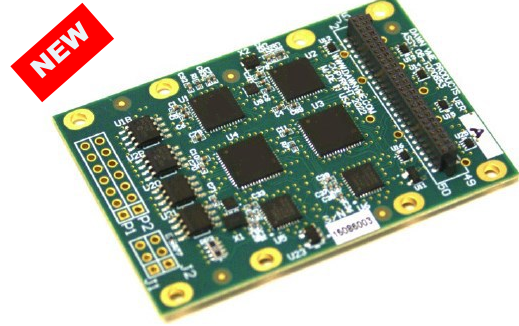

3U VITA 67.2 Extender Card

Other Versions Avaiable
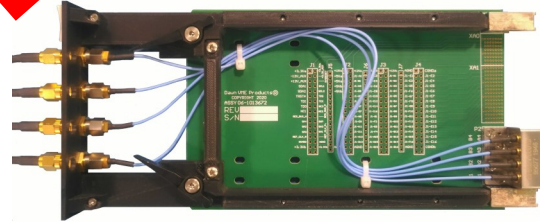
3U VITA 67.3 Type C Extender CARD

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SERDES Ethernet to Base-T Conversion Module

USB Multi-interface Adapter Board for SOSA Systems
Connect all these RS-232 / JTAG / I2C / SPI ports to a Dawn 06-1020853 USB 2.0 multi-interface adapter card, and combine all these ports (RS-232 / JTAG / I2C / SPI) into a single USB access interface which is compatible with SOSA D38999 connector pinout standards.
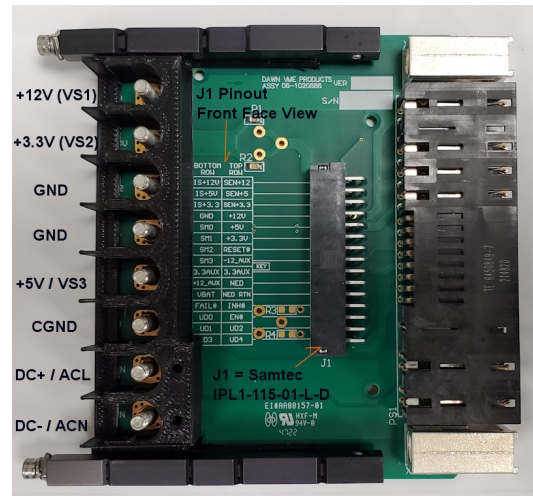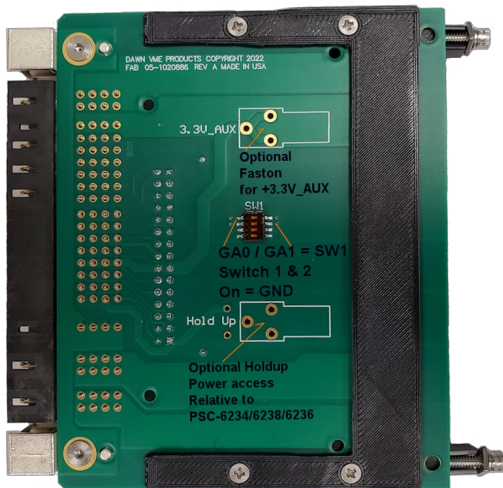
06-1020886
VITA 62 3u cable adapter card.
Available in Air cooled latch or Wedgelock chassis mounting versions.

10G-KR/KX/ SGMII to 10G/1G-BASE-T Conversion Module

Solution is to convert the Backplane standard ports (10G-Base KR, SGMII, KX ...etc) to 10G-BaseT / 1G -BaseT Ethernet ports, so they can be linked to other equipment which is more than 12 inches from the source VPX card. Specifications

Universal 6U/3U VPX Rear Transition Module

RTM-9265

RTM-9380

Meritec VPXplus From Dawn VME

Innovative Interconnect Solutions from Meritec which adds topology mapping and I/O through cables attached to RTM connectors of backplane. Wide choice of standard parts allows for Ultra-Thin to Fat Pipe connections between slots and virtually any type of I/O. Custom parts available for special applications.

3U VPX Intelligent Test Module

ITM-6973
PIC Microprocessor For Testing, Data Logging and Control. 6 Microprocessor Controlled High Current Active Loads. 6 Channel Volt Meter. 6 Channel Current Meter. 4 Precision Temperature Sensors. 6 Chanel Noise Meter. 2 Each 3 Axis Accelerometers. Real Time Clock for Event Stamping. USB Connection to PC And Many More Features!

RuSH SYSTEM Monitor

monitors voltages and temperatures and monitors and controls fan speeds in response to user commands or temperatures. A huge variety of parameters are user-selectable through a menu-driven interface. Most models are available with Ethernet, RS-232, LCD and LED interfaces. No other monitor or controller on the market has more features or is easier to use. deal with nearly any situation.

Unique VPX Backplane Technology

Dawn VME is the only VPX backplane manufacturer with **FMM** (Fabric Mapping Module) technology. These consist of 4 layer overlays that allow us to map user defined pins in virtually any configuration from slot to slot. With an ever growing library of FMM's we can turn custom configured backplane fast and inexpensively. This technology has been thoroughly tested and proven reliable in in harsh military environments and meets all VPX performance specifications.
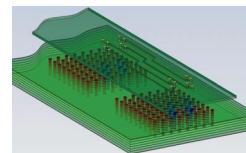
You need it right. You want Dawn!

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