

VME, VPX, VXS, cPCI & AMC Embedded SBC and IO

Unitronix has been supplying VME and Bus related computer products to the Australian embedded market place for 20 years. There is no other supplier in Australia that has the longevity or depth of technical experience in supply and through life support of this professional embedded engineering equipment. If you are supporting and old system, or designing a new one, with a processing bus structure, parallel or new serial switched fabrics, then let us know what you are looking for.

Curtis Wright VME64X and Open VPX with New Intel i7 and Freescale QorIQ P4080 processors:

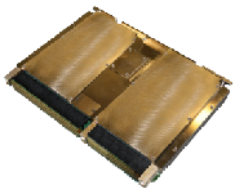
SVME/DMV-1905 6U VME Intel Core i7: **NEW Intel i7 Processor, more computing power**
 The SVME/DMV-1905 from Curtiss-Wright Controls supports Intel's next generation Core i7 processor with SSE 4.2 floating point performance. Utilizing this advanced dual core CPU and Curtiss-Wright's proven ruggedization technology, the SVME/DMV-1905 is designed for high performance operation in harsh environments. With a 17 GB/s (peak) DDR3 memory subsystem connected directly to the processor, the Core i7 is able to maximize the throughput of the SSE 4.2 floating point units. The Core i7 is also equipped with more cache than any previous CPU allowing it to process larger vectors at peak rates than previous processor technologies.



Curtiss Wright CHAMP-AV8 Quad Core: **NEW Intel i7 for Signal Processing!**
 The CHAMP-AV8 multi-processing board brings the floating-point performance of the quad-core Intel® Core™ i7-2715QE processor to the OpenVPX form factor standard. Utilising a pair of processors, the CHAMP-AV8 delivers performance rated at up to 269 GFLOPs. With a 21GB/s (peak) DDR3 memory subsystem connected directly to the processor, the Intel® Core™ i7-2715QE is able to maximise the throughput of its Intel AVX vector processing units and process larger vectors at peak rates significantly greater than was possible with previous AltiVec™-based systems.



VPX6-1956 Intel Core i7 Quad Core 32nm: 4 PPC Cores
 The VPX6-1956 from Curtiss Wright Controls Embedded Computing supports Intel® Core™ i7 Quad-Core 32nm processor with Intel AVX floating point libraries. Utilising this advanced quad core CPU and Curtiss-Wright's proven ruggedisation technology, the VPX6-1956 is designed for high performance operation in harsh environments.



SVME/DMV-186 PowerPC QorIQ P4080: **Eight Power PC Cores**
 VME-186 is the most advanced VME SBC harnessing the power and performance of Freescale's QorIQ P4080 Communications Processor. The P4080 has eight Power Architecture™ processor cores and associated high-performance data-path acceleration logic, network and peripheral bus interfaces provide the ultimate platform for a wide range of embedded harsh environment applications.



Curtiss Wright VPX3-1256 Intel Core i7: 3U for Compact Systems
 The VPX3-1256 from Curtiss-Wright Controls Embedded Computing supports the Intel® Core™ i7 quad-core processor with Intel AVX floating-point libraries. Utilising this advanced quad-core CPU and Curtiss-Wright's proven ruggedisation technology, the VPX3-1256 is designed for high-performance operation in harsh environments.



Concurrent Technologies AMC VPX cPCI and VME64X cards:

Concurrent Technologies: **Latest Intel® Core™ i7 processors on 6U CompactPCI®**
 The PP 712/08x family of 6U CompactPCI® boards, one of the first embedded product ranges to feature the Intel® Core™ i7 processor family, released by Intel®. Depending on the application requirements a choice of processors are supported: the 2.53GHz Intel® Core™ i7-610E, 2.0GHz Intel® Core™ i7-620LE and the 1.06GHz Intel® Core™ i7-620UE. Based on 32nm process technology and the new Intel® integrated memory/graphics controller architecture, these processors are from the Intel® embedded roadmap which offers at least seven year availability. With up to 8 Gbytes of DDR3-1066 ECC SDRAM, dual PMC/XMC sites, three Gigabit Ethernet ports, four SATA300 disk interfaces and dual head graphics. In addition, the PP 712/08x can optionally support extended temperatures ranging from -40°C to +85°C.



Available in VME as the PP-717 Intel i7 SBC.



Concurrent Technologies Intel® Core™i7 Quad-Core processor: OpenVPX 3U VPX-REDI

The TR 80x/39x features the enhanced processing and graphics performance of the quad-core Intel® Core™ i7-2715QE processor and the dual-core Intel® Core™ i5-2515E processor whilst maintaining the power consumption of the previous Intel® Core™ processors. Applications for the TR 80x/39 are expected in real-time, military embedded, aerospace and transportation systems for data acquisition, control systems and video signal processing.

Concurrent Technologies AMC Processor: 2nd Generation Intel Core Processor Module

The AM 31x/x0x is a high performance single-width, full or mid-height, AdvancedMC™ processor module supporting the 2nd generation Intel® Core™ processor and the Intel® Series 6 mobile class chipset with up to 8-Gbytes of DDR3-1333 ECC SDRAM. The AM 31x/x0x is designed in compliance to AMC.0, AMC.1 Type 8 (x8 PCI Express®), AMC.2 Type E2 (2 x Gigabit Ethernet) and AMC.3 Type S2 (2 x SATA ports).

North Atlantic Industries (NAI) IO Products:

Unitronix introduces a family of 3U cPCI off-the-shelf solutions, ideally suited for sensor and communication data acquisition, distribution, processing and management for a wide range of land, sea and air military platforms. The 75DP3 Single Board Computer, coupled with the 75D3 or 75C3 multi-function I/O boards provides a complete, low-power/high-performance, programmable, 3U cPCI solution for space-constrained, resource-limited, embedded systems.



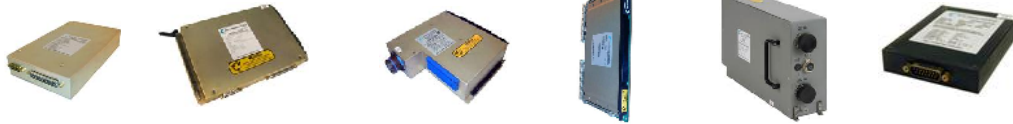
VME Single Board Computer (SBC) with multi-function and communications I/O options. The 64EP3 effectively eliminates the need for a separate SBC for I/O intensive system applications.



The new 67C3 is a single slot, OpenVPX, 6U, Multi-function I/O and serial communications card. higher speed, switched fabric communication architectures, offering significantly greater capability.

North Atlantic Industries (NAI) Power Supply Products:

NAI offers a variety of Conduction Cooled, COTS and Custom 6U VME /cPCI/ VPX AC/DC Rugged Power Supplies specifically designed for the Rugged, Military and Commercial Aerospace markets. Output power up to 600 Watts is available. NAI AC/DC Military Power Supplies provide high power-density, low profile, high reliability, and rugged packaging. Advanced designs accept a wide range of inputs and provide standard VME and cPCI output configurations. All AC/DC Military Power Supplies are designed with NAVMAT component derating and have integrated EMI filters per MIL-STD-461



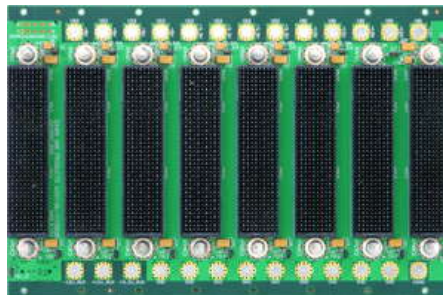
**AC/DC VME cPCI VXS
DC/DC VME cPCI VXS
AC/DC Stand Alone
Power Bricks
DC/AC Invertors**

DAWN VPX VME cPCI Backplanes and Chassis



CCE-3VX4: Small and extremely rugged, cold plate base coupled, conduction cooled enclosure measures 7"L x 6"W x 7.62H. Full environmental sealing insures reliable operation in any environment. Embedded RuSH Technology monitors Power Supply voltage and current on all VS(n) and AUX rails, plus temperature, and (optionally) humidity. Flexible backplane fabric and I/O mapping supports any application. Backplane is configurable to meet any data plane connection fabric.

VPX Enclosures: Dawn announces the introduction of a full line of new chassis systems, products and accessories for the VPX Marketplace. Products will include Backplanes, Development Systems, Deployable Rack Mount Systems, Deployable Mission Critical Systems for both convection and conduction cooled modules. Dawn's VPX products are based on OpenVPX (Vita65) and VPX REDI (Vita46) Specifications and will offer the latest available features.



**NEW Dawn
Conduction Cooled
Card guides for Air
Cooled chassis,
great idea and great
way to use
Conduction Cooled
VPX in the lab.**

**For further information on these products or for technical support call:
UNITRONIX Pty Ltd**

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