

CURTISS-WRIGHT AND WIND RIVER®

**CURTISS-
WRIGHT**

CURTISSWRIGHTDS.COM



**TRUSTED
PROVEN
LEADER**

WIND™



AIR



LAND



SEA



SPACE

Partnering Together for Your Program Success

For two decades, Curtiss-Wright and Wind River have worked closely together to help system integrators reduce their cost, risk, and time to market when developing complex embedded computing systems. Our commercial off-the-shelf (COTS) hardware takes full advantage of Wind River's intelligent-edge software platforms, with demonstrated support for Wind River's most widely deployed RTOS, VxWorks®, as well as its ARINC 653-compliant VxWorks 653 platform and open source-based Wind River Linux.

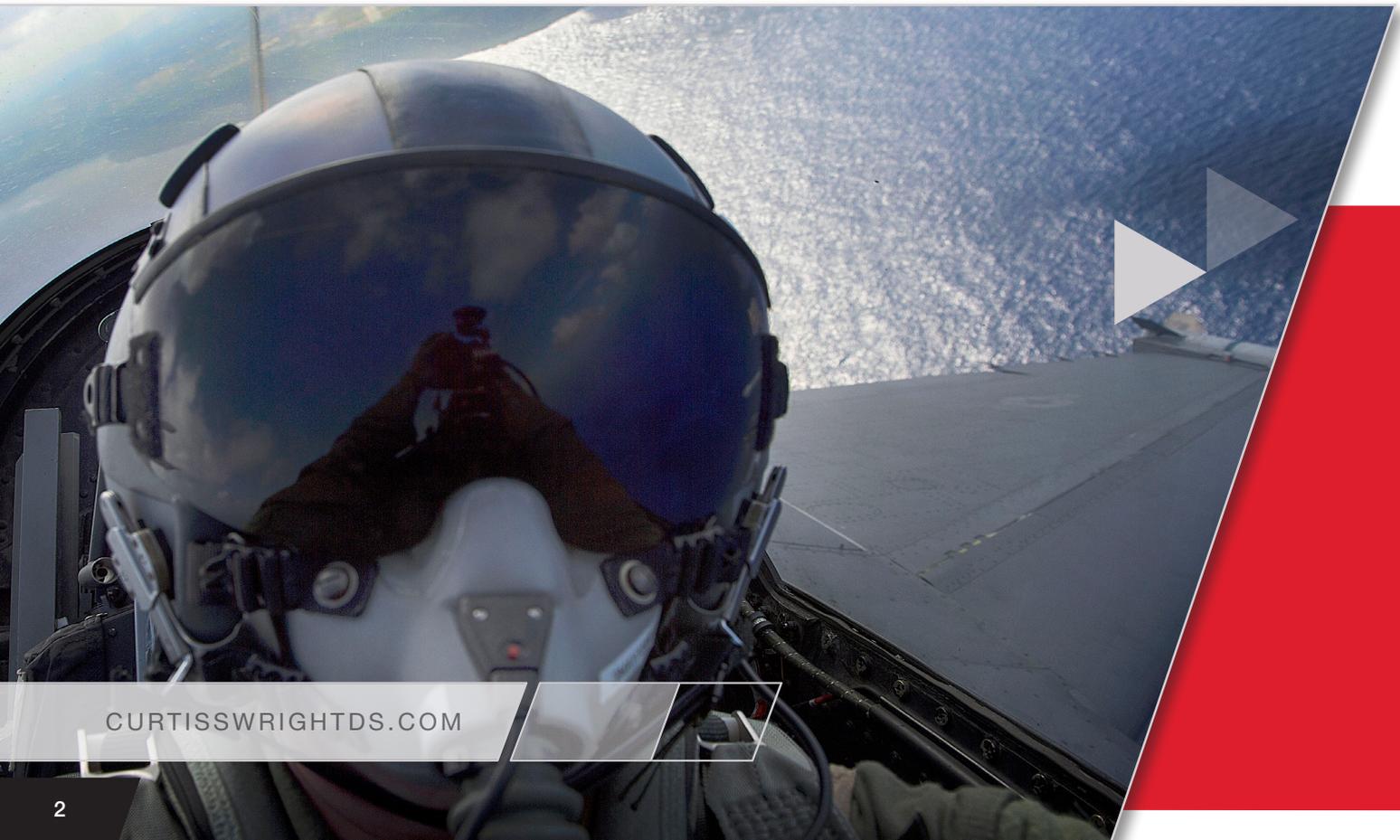
For programs with safety certification requirements, Curtiss-Wright offers a selection of hardware available with DO-254 artifacts to expedite the certification process and provide a low risk, cost-effective alternative to custom solutions. These boards are designed to support industry-leading DO-178 certifiable operating systems, such as Wind River's VxWorks 653.

Our Partnership = Your Program Advantage

Reliable commercial off-the-shelf (COTS) solutions designed for and field proven in rugged aerospace and defense applications

Optimized VxWorks support for a broad selection of Curtiss-Wright boards and systems

Reduced cost, risk, and development time of DO-254/DO-178 safety-certifiable solutions



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Wind River Software Platforms

VxWorks

Modular Architecture: Built on an upgradeable, future-proof architecture to rapidly respond to changing market requirements, customer needs, and technology advancements

Scalable Functionality: Offers flexible deployment options supporting a wide range of memory footprint, functionality, and processing power requirements

Enhanced Security: Designed with a comprehensive set of security capabilities to efficiently protect devices, data, and intellectual property from boot-up to shut-down

Modern Development Tools: Supports current languages and libraries, from low-level virtual machine (LLVM), to C11/C++17, Rust, Boost libraries, and Python

VxWorks 653

Robust Partitioning: Includes multi-core-enabled scheduler with hardware virtualization assist that supports unmodified guest operating systems, allowing applications to run in parallel on separate cores in virtualized environments, increasing compute capacity

Multi-Level Safety: Supports multiple levels of safety and criticality on a shared processor

Certification Ready: Available with DO-178C design assurance level (DAL) A certification evidence

Standard Conformance: Future Airborne Capability Environment (FACE™) Operating System Segment (OSS) conformant

Powerful Tools: Includes DO-330 qualified XML compiler for rapid integration and configuration efficiency

Proven Pedigree: Widely proven and deployed by over 360 customers on over 600 programs in over 100 aerospace and defense platforms



Trusted, Proven COTS Hardware

Curtiss-Wright's COTS modules serve as "building blocks" for embedded rugged computing systems, enabling you to choose from a variety of capabilities, functionality, and features to meet your specific program requirements. Curtiss-Wright and Wind River collaborate on a wide range of Board Support Packages (BSPs) to make support for systems seamless.

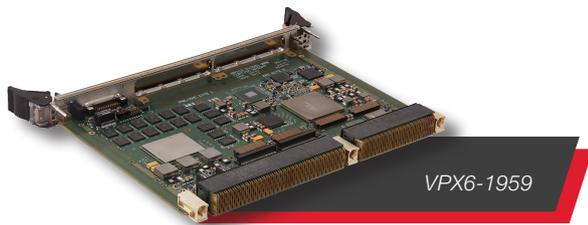
VxWorks

3U VPX Single Board Computers (SBCs)

- ▶ VPX3-1707
SBC with NXP Arm LX2160A processor
- ▶ VPX3-1703
SBC with NXP Arm LS1043A processor
- ▶ VPX3-1260
SBC with 8th Gen Intel Xeon "Coffee Lake" processor
- ▶ VPX3-1259
SBC with 5th Gen Intel Core i7 "Broadwell" processor
- ▶ VPX3-1220
SBC with 7th Gen Intel Xeon "Kaby Lake" processor
- ▶ VPX3-152
SBC with NXP Power Architecture T2080 processor
- ▶ VPX3-133
SBC with NXP Power Architecture T2080 processor
- ▶ VPX3-131
SBC with NXP Power Architecture P4080 processor

6U VPX SBCs

- ▶ VPX6-1959
SBC with 5th Gen Intel Core i7 "Broadwell" processor



VME SBCs

- ▶ VME-1910
SBC with 8th Gen Intel Xeon "Coffee Lake" processor
- ▶ VME-1909
SBC with 5th Gen Intel Xeon "Broadwell" processor
- ▶ VME-196
SBC with NXP Power Architecture T2080 processor
- ▶ VME-194B
SBC with NXP Power Architecture P2020 processor
- ▶ VME-186
SBC with NXP Power Architecture P4040/4080 processor

XMC Mezzanines

- ▶ XMC-121
mezzanine card with 7th Gen Intel Xeon "Kaby Lake" processor
- ▶ XMC-109
mezzanine card with NXP Power Architecture P2020 processor

3U & 6U Digital Signal Processing (DSP) Modules

- ▶ CHAMP-XD1
DSP with Intel Xeon D-1539 or D-1559 processor
- ▶ CHAMP-XD2
DSP with dual Intel Xeon D-1539 or D-1559 processors



VxWorks 653

3U VPX SBCs

- ▶ V3-152
DO-254 DAL A certifiable SBC with NXP Power Architecture T2080 processor
- ▶ V3-1703
DO-254 DAL A certifiable SBC with NXP Arm LS1043A processor



Pre-Validated Embedded Solutions

Below are some examples of the rugged, powerful, pre-engineered solutions created by Curtiss-Wright and Wind River, designed to save you time and money, reduce your program risk, and speed your time to deployment.



DO-254/178 Safety-Certifiable System



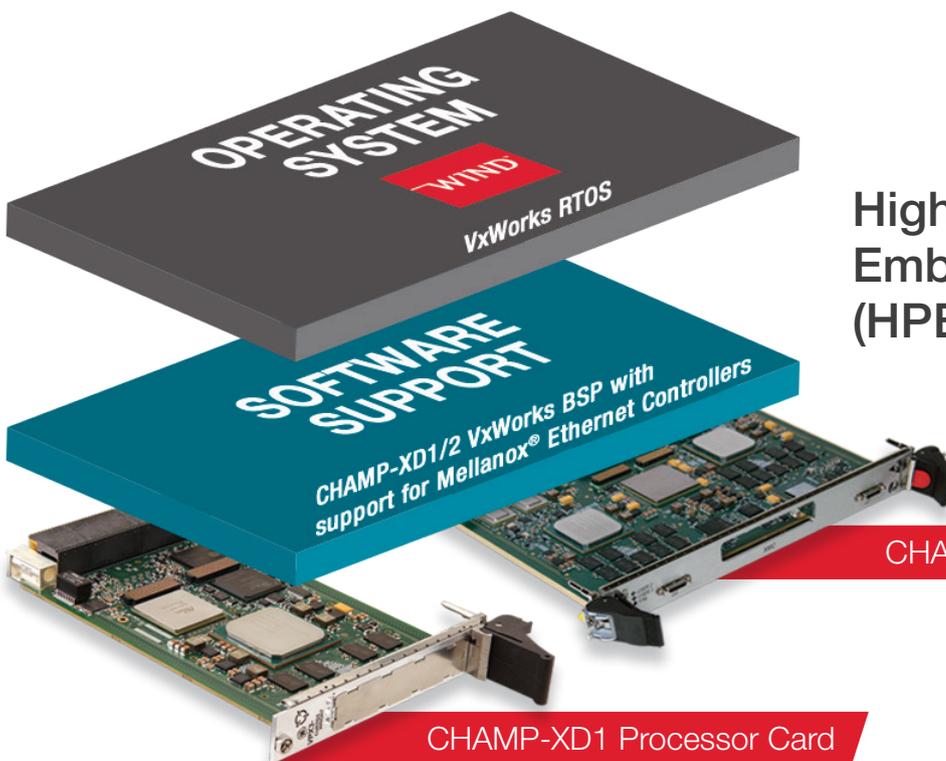
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Mission Processor for Real-Time Applications

VPX3-1260 Single Board Computer



High Performance Embedded Computing (HPEC) System

CHAMP-XD2 Processor Card

CHAMP-XD1 Processor Card

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