

VPX6U-E8860-DUAL-VO



AMD Radeon E8860 Module with 12 digital outputs, 2 VGA outputs

EOL Product. Contact WOLF to discuss alternatives.

KEY FEATURES

- Dual AMD Radeon 768 GFLOPS GPUs
- Chip-down rugged design
- 12 independent DisplayPort 1.2 outputs
- 4 GB GDDR5 memory
- Operating power from 80 - 125W

ADDITIONAL FEATURES

- Support for HDMI 1.4, single link DVI, dual link DVI
- Two VGA displays
- GPGPU parallel processing:
 - OpenCL™ 1.2, DirectCompute 11
 - DirectX® 11.1, OpenGL 4.2
 - AMD's HIP Tools for NVIDIA® CUDA™ code reuse
- 4 GB GDDR5 memory, width: 128-bit
- Memory bandwidth: 64 GB/s per GPU
- Support for AVC (H.264) hardware encode/decode
- PCIe Gen3 x16/x8/x4
- Windows and Linux drivers
- Optional RTOS drivers: VxWorks, others on request

SPECIFICATIONS

- High level of ruggedization:
 - Rugged Conduction-cooled or Air-cooled
 - Operating temperature: -40° to +85°C
 - Vibration (sine wave): 10G peak, 5 - 2000Hz
 - Shock: 30G peak for air-cooled, 40G peak for conduction-cooled
- Dimensions: 160mm x 233mm x 25.4mm
- Weight: with default conduction-cooled plates: TBD; with default air-cooled plates: TBD
- +12V or +5V power source options
- ANSI/VITA 48 (VPX REDI), 65 (OpenVPX)

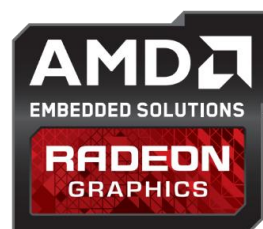
OVERVIEW

WOLF's VPX6U-E8860-DUAL-VO board incorporates AMD's Radeon® GPUs, with each GPU providing processing at 768 GFLOPS and highly efficient operating power which is dynamically controllable.

The VPX6U-E8860-DUAL-VO is capable of driving up to 14 outputs, with up to twelve digital displays and up to two VGA displays. DisplayPort 1.2 is supported, with support for HBR2 lanes providing up to 21.6 Gbps per DP channel.

This board can provide 1.5 TFLOPS of single-precision GPGPU parallel processing capability. AMD GPUs are optimized for OpenCL, the open and cross-platform programming standard. For those with existing CUDA code, AMD's HIP Tools can be used to port CUDA code to C++, giving developers a way to reuse code that was previously locked to a proprietary hardware.

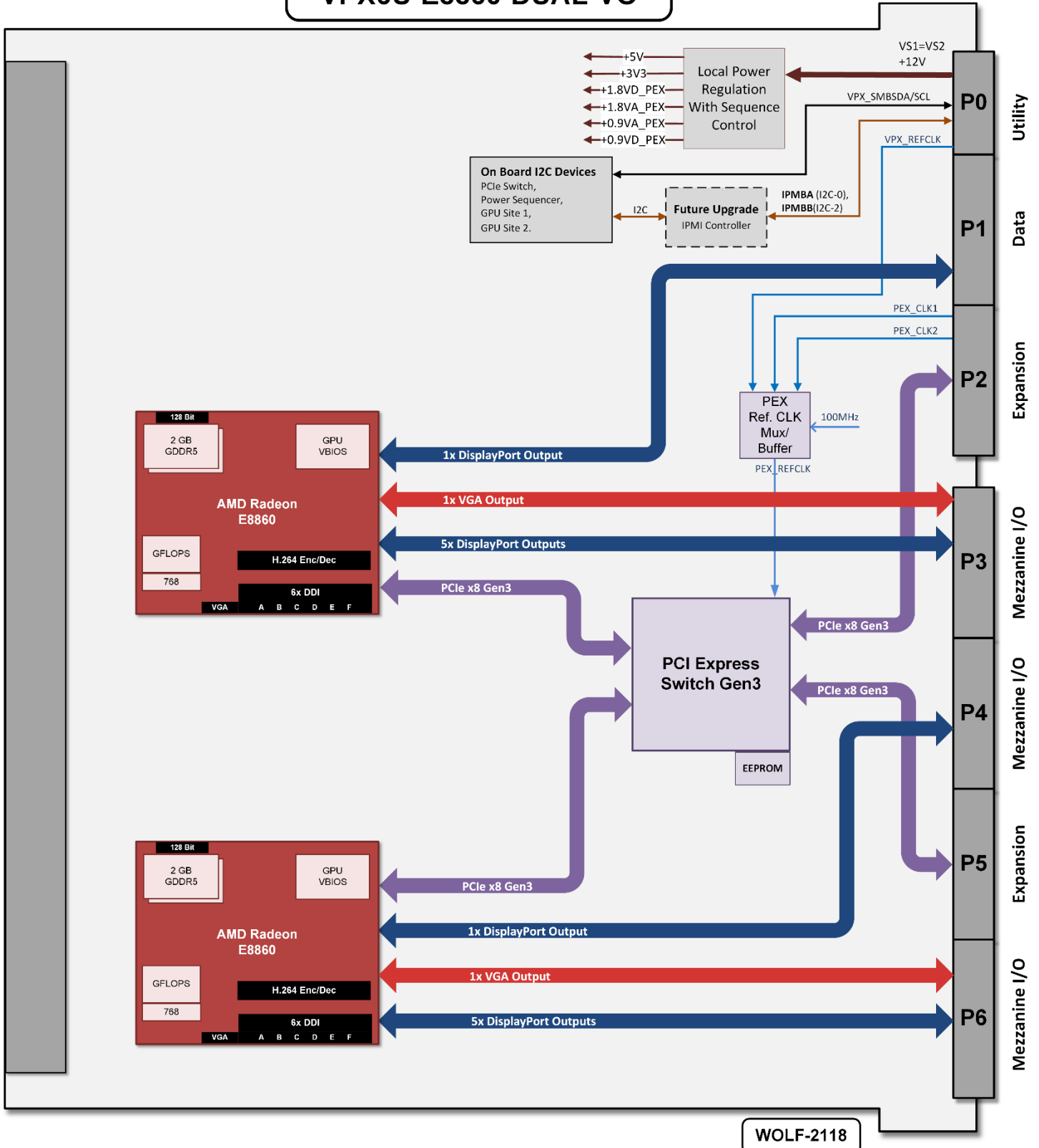
Optional RTOS drivers are available for this board, including VxWorks, Integrity, LynxOS, and others on request. Windows and Linux drivers are also available.



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VPX6U-E8860-DUAL-V0



WOLF-2118

WOLF-2118

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ORDERING CODES

The following table defines series of common order codes for the VPX6U-E8860-DUAL-VO module. The asterisks denote characters of the part number that are defined based on common configuration options.

Some common configuration options for this module are:

- Display Interfaces
- Conformal Coating Type
- Default Power Threshold
- +12V / +5V Main Power
- Cooling Architecture
- RTOS options
- COTS, MCOTS or Variant Locked

Ordering Number	Description
6U VPX AMD E8860 Single Slot Configurations	
211823-F7**VPX6v10	6U VPX, Air Cooled, 1", AMD E8860
211833-F7**VPX6v10	6U VPX, Conduction Cooled, 1", AMD E8860

Contact Sales for the latest Ordering Numbers and available options

MANUFACTURING AND QUALITY ASSURANCE

WOLF designs modules to pass the following environmental standards:

- MIL-STD-810 (United States Military Standard for Environmental Engineering Considerations and Laboratory Tests)
- MIL-HDBK-217 (Reliability Prediction of Electronic Equipment)
- RTCA DO-160 (Environmental Conditions and Test Procedures for Airborne Equipment) on request

WOLF complies with the following quality management systems:

- AS9100D: Quality Management System - Requirements for Aviation, Space and Defense Organizations (certified)
- ISO 9001:2015: Quality management systems (certified)
- AS5553: Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition (compliant)

Boards are manufactured to meet the following standards:

- IPC-A-610 CLASS 3 (Acceptability of Electronic Assemblies)
- IPC 6012 CLASS 3 (Qualification and Performance Specification for Rigid Printed Boards, Class 3 for High Reliability Electronic Products)
- IPC J-STD-001 (Requirements for Soldered Electrical and Electronic Assemblies)



WOLF-2118