

OpenPOWER Ready Application

Wistron Corp.

Application

Owner	Wistron Corp.
Product Name	Polaris
Short Product Description	Power8 2U2S System
OpenPOWER Ready Category	System
Contact E-mail Address	EBG_sales@wistron.com
Product/Component Information URL	No
Tag String	Wistron, OpenPOWER 2U2S, Polaris
Version of This OpenPOWER Ready Document Used for the Criteria	Revision 0.11

CheckList Table

Check List Items	Wistron
OpenPOWER ISA Profile processor Chipset.	2x Power8, up to 8x Centaur.
Firmware to initialize the hardware is a modest derivative of the OpenPOWER Abstraction Layer (OPAL) FirmWare base, with no firmware API/ABI changes that have not been accepted upstream.	According to the hardware to modify OPAL.
At least one boot device. Storage or PXE Network boot	From Storage and PXE (add-on card).
Must be able to install and run a current LTS (Long Term Support) version of Ubuntu® Server.	Support RHEL7.2/Ubuntu14.04.3
System must successfully run an exerciser application. The exerciser application should be open source, compilable with open tools, and provide some output which can indicate functionality.	Support HTX.
PCIe® bus should support PCIe gen 1.0, 2.0 and 3.0 adapters.	Support PCIe 1.0, 2.0 and 3.0 adapters.
A boot management chip to manage the Power On Reset (POR) and initial Initial Program Load (IPL) is needed.	Using AST2400 to management POR and IPL.
A system level XML file as input to the OpenPOWER Build process for host firmware.	Follow OpenPOWER build process.
PNOR, VPD, Thermal and Power devices.	Comply with OPAL FirmWare expectations

System Feature

CPU	2 x P8 CPU
CPU Socket	Socket 2296M LGA
Memory Riser (Up to 4 riser per CPU)	Support DDR3: 1333, 1600 Up to 32 DIMMs (4 DIMMs per riser) Up to 64GB DDR3 per DIMM
Expansion Slots	1 x PCIe x8 slot (CAPI Enable) 1 x PCIe x16 slot (CAPI Enable) 1 x PCIe x8 slot Support 2x NVIDIA K80 GPU or CAPI PCI-E adapters
HDD	2 x 2.5" SATA HDD
Rear I/O	1 x Front USB3.0 1 x Rear USB2.0 1 x VGA connector 1 x COM port 1 x RJ45
Front I/O (TBD)	Power button /PWR LED /HDD LED /ID LED /Fault LED

