Portwell OpenBMC Development Kit
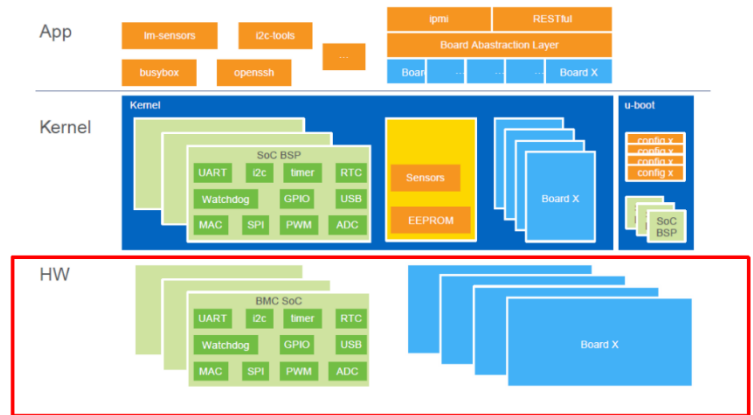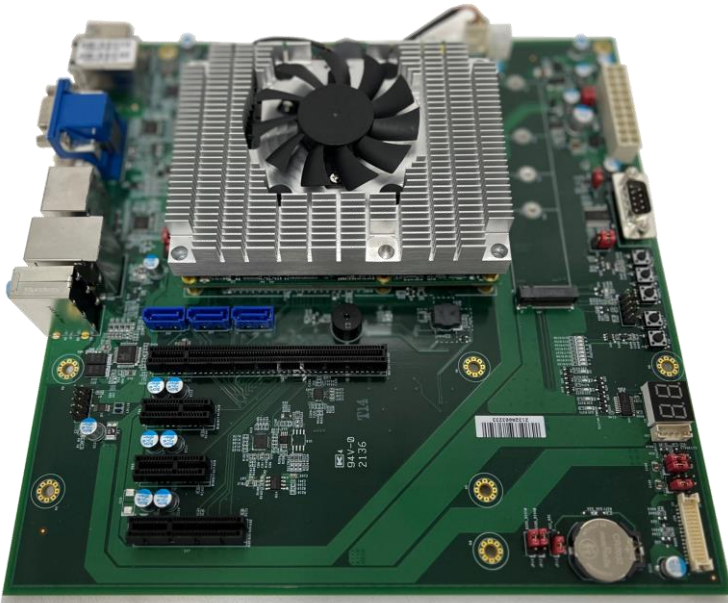
AST2600 & AST2500 ASPEED server management procesors
COM Express Type 6 module via microATX (uATX) form factor
carrier board deisgned with rich input and output options

The Portwell OpenBMC Development Kit is designed with the ASPEED AST2600 or AST2500 server management processors, and the 11th Gen Intel® Core™ processors (formerly Tiger Lake) on a Portwell COM Express Type 6 module, PCOM-B657VGL, featuring DDR4 memory support, Gen3 PCIe interface, and general I/O interfaces such as USB, SATA, and graphic output. OpenBMC is a complete open-sourced Linux distribution, with flexibility in customization to support different SoC or boards.

FEATURES

- ASPEED AST2500/AST2600 server management processors supporting advanced OpenBMC features
- OpenBMC firmware image built by Portwell engineering expertise with Meta's (Meta Platforms, Inc. and formerly known as Facebook, Inc.) latest OpenBMC framework
- Scalable modularization design with COM Express Type 6 module
- Intel® based CPU with longevity support

GENERAL

Form Factor	microATX form factor carrier board with COM Express module design
Server Processors	ASPEED AST2600 / AST2500 (SKU dependent)
CPU Processor	11th Gen Intel® Core™ processor series
Memory	Support up to 64GB DDR4 dual-channel 3200MT/s
BIOS	AMI Aptio® V

I/O INTERFACE

Ethernet	Intel® Ethernet Controller I225IT, supporting up to 2.5GbE
USB	4 sets of SSTX/SSRX to support USB 3.0
Others	SPI, SMBus, GPIO (8 bit, programmable), I²C, UART x2
PCIe	One PCIe x16, two PCIe x1, one PCIe x4
Storage	3x SATA III (SATA 6Gb/s) M.2 (M-key, SATA)

Mechanical & Environment

Dimension	microATX form factor | 244mm x 244mm
Storage Temperature	0°C~85°C (0°F~185°F)
Operating Temperature	0°C~60°C (0°F~140°F)
OS	Microsoft Windows 11 Microsoft Server 2019 Linux Fedora, Ubuntu, CentOS
Power DC In	ATX power supply

*All information provided is subject to change without notice. Last updated: November 10, 2022

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