

Portwell Neptune Alpha OpenBMC Development Kit



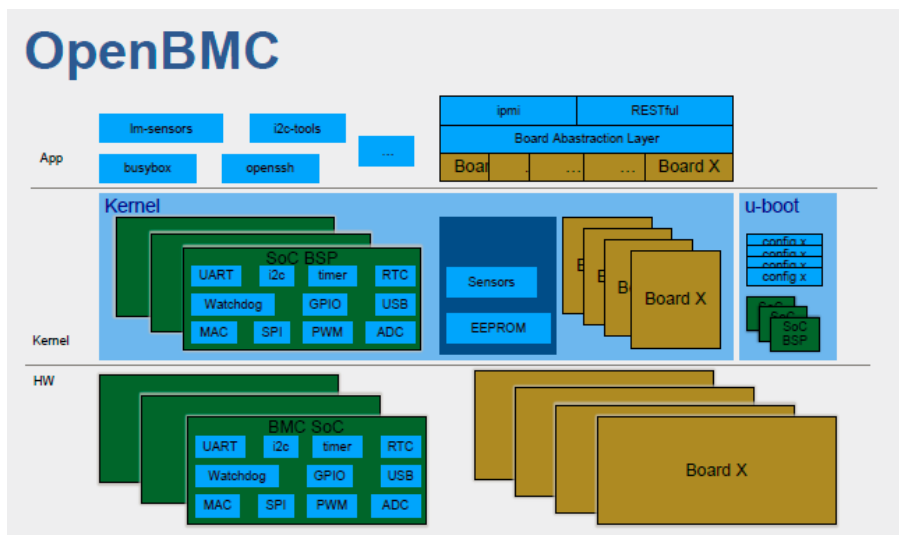
The Portwell Neptune Alpha OpenBMC Development Kit is built with Facebook's latest OpenBMC, and designed with the Portwell PCOM-B639VG Type 6 COM Express Basic (125mm x 95mm) module and carrier board in microATX form factor, featuring the 6th generation Intel® Core™ processor family, DDR4 memory support (both ECC and non-ECC), Gen3 PCIe interface, and 30% faster graphic performance. Specifically, Gen3 PCIe supports greater PCIe performance, crucial for networking and medical applications. Also, the enhanced graphic feature supports 4K performance.

FEATURES

- Base board with ASPEED's AST2500 Advanced PCIe Graphics & Remote Management Processor supporting advanced Baseboard Management Controller (BMC) features
- Built with Facebook's latest OpenBMC, an open software framework to build a complete Linux image for a Baseboard Management Controller (BMC)

ORDERING GUIDE

Please contact robertf@portwell.com for details.



Source: Facebook, Inc.

GENERAL

Processor	6 th generation Intel® Core™ processors
Chipset	Mobile Intel® QM170 chipset
Memory	Support dual channel memory up to 32GB DDR4
BIOS	AMI Aptio V
Watchdog Timer	Programmable via S/W from 1 sec to 255 min
Hardware Monitoring	CPU, voltage, temperature
Storage Devices	– 3x SATA 6.0Gb/s – 1x M.2 storage interface
IPMI	Facebook® OpenBMC

I/O INTERFACE

Ethernet	Intel® Ethernet Controller I219LM
PCIe Expansion	– 1x PCIe x16 – 1x PCIe x4 – 2x PCIe x1
USB	– 4x USB 3.0 – 1x USB 2.0
Serial Ports	– 1x serial TX/RX supported from onboard EC – 1x serial for BMC

DISPLAY

Display Interface	– HDMI – DP – DVI – VGA
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Mechanical & Environment

Dimension	9.6" x 9.6" (243.8mm x 243.8mm)
Environment	– Operation Temperature: 0° C ~ 60° C – Storage Temperature: -20° C ~ 80° C – Relative Humidity: 5~95%

