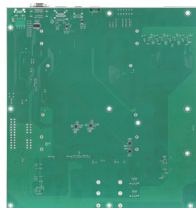
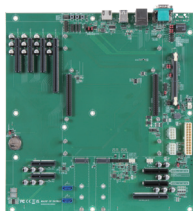


PCOM-C800

**eATX (305x330mm) Form Factor Evaluation Carrier Board
for COM-HPC Server Module**



FEATURES

- COM-HPC Carrier Board Support COM-HPC Server Size D and E Modules
- eATX Form Factor with Full PCI Express Expansions (#0 ~ #63)
- Support PCIe Slots (One x16, Four x8, Two x4, Two M.2 NVME x4 and RunBMC)
- Support OCP RunBMC Slot and Proprietary PHY Card for KR0 / KR1 Extension



Portwell PCOM-C800 is COM-HPC server carrier board for module Sizes D and E. It is for platform evaluation for embedded customer when designing their own carrier board and system. All I/O interfaces especially HSIOs are implemented for latest and future modules such as PCIe, USB 3.2/2.0, SATA. Also, legacy I/Os such as UART, GPIO, SMBUS, I2C and I2C Port 80 7-segment LEDs are supported. For server management, the OCP RunBMC connector also been considered and follow Rev 1.4.1 specification.

General

Product	PCOM-C800
Form Factor	eATX size (305x330mm)
Supported Module	COM-HPC Server , size D and E
General Function	RTC battery BIOS SPI Socket Power BTN / Reset BTN / Rapid shutdown BTN Two NVME PCIe 3.0 x4, Support 2242/2260/2280 OCP RunBMC Slot based on Rev 1.4.1 Independent 1GbE RJ45 management port and VGA Connector

I/O Interface

SATA	2 x SATA III
USB	4x USB 3.2 Gen2 Type A at Rear I/O 4x USB 2.0 in pin header
Ethernet	1x GbE MDI from OCP RunBMC module with RJ45 connector at rear I/O 1x 2.5GbE MDI from module with RJ45 connector at rear I/O Eight 10G/(25G) Ethernet KR signals from module with two proprietary PCIe x4 slots
Serial I/O	GPIO
	I ² C
	SMBus
	UART
PCI Express	One PCI Express x16 connector (#16 ~ #31) Four PCI Express x8 connector (#0 ~ #7, #32 ~ #55) Two PCI Express x4 connector (#56 ~ #63) Two M.2 M-Key NVMe (#8 ~ #15)
Others	System Fan connector x1, 4 PIN PWM Smart FAN Type Temperature and voltages monitoring

MECHANICAL & ENVIRONMENT

Dimension	305mm x 330mm
Storage Temperature	-40 ~ 85 °C
Operating Temperature	-40 ~ 85 °C
Storage Humidity	0% ~ 95%
Operation Humidity	0% ~ 95%

ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-C800	AB1-3L52Z	In Development
PA-C3L-D27	AB9-3414Z	In Development
PA-C3L-P53	AB9-3438Z	In Development

BLOCK DIAGRAM

PCOM-C800

COM-HPC Sever
Type D&E Carrier Board

eATX Board Size
305x330mm

-40 ~ +85C

