

PCOM-B702

Intel® Atom™ processor C3000 Series with DDR4 ECC up to 32GB, 2400 MT/s on Two SO- DIMM Sockets with up to 12 PCIe Lanes, 4x XGMII to support 10G, NC-SI Interface, SATA, USB 2.0 and 3.0



Portwell PCOM-B702 is designed with Intel® Atom™ processor with brand new Type 7 pin definition. It's built in with XGMII to support Ethernet and DDR4 ECC SO-DIMM up to 32G. Up to 12 PCIe lanes support high speed IO card for more applications. It's compatible with Type 6 carrier board. GPIO and SDIO can be selected by resistors.

FEATURES

- New Intel® Atom™ processor C3000 Series
- Support DDR4 ECC up to 32GB, 2400 MT/s on Two SO- DIMM Sockets
- Up to 12 PCIe Lanes
- 4x XGMII to support 10G and 1x GbE Interfaces
- 4x USB 3.0/2.0, 2x SATA III
- Wide-Temp (-40°C to +85°C) Support

GENERAL

Form Factor (mm)	Type 7, compact (95 x 95mm)
BIOS	AMI Aptio V
CPU/Clock/Cache	Intel® Atom™ Processor C3000 Series, up to 16 CPU Cores, 35W
Hardware Monitoring	ITE 8380 Embedded Controller
Memory	Support DDR4 ECC up to 32GB, 2400 MT/s on Two SO- DIMM Sockets
Storage Devices	2x SATA III 6.0Gb/s (based on CPU/HSIO arrangement)

I/O INTERFACE

Ethernet	Intel® Ethernet Controller I210IT 4x XGMII to support 10G
PCIe Expansion	Up to 12 PCIe lanes (based on CPU/HSIO arrangement)
USB	4x USB2.0 4 sets of SSRX/SSTX to support USB3.0 (based on CPU/HSIO arrangement)
Connector	COM Express Connector x2, supports both 8mm and 5mm design
Security	TPM 1.2/2.0 (optional)
Others	SPI, SMBUS, GPIO (8-bit, programmable), I2C, UART x2

Mechanical & Environment

Dimension	95mm x 95mm
Storage Temperature	-40°C ~ 85°C (-40°F~185°F)
Operating Temperature	0°C ~ 60°C (-32°F~140°F) Extended temp: -40°C ~ 85°C (-40°F~185°F) base on processors
OS	Microsoft Windows 7/8/8.1/10 Microsoft server 2012/2016 Linux Fedora 22/ Ubuntu 15.04/ CentOS 7
Power DC IN	+12V DC Support AT/ATX mode