

PCOM-B701

Intel® Atom® processor C3000 series (formerly Denverton) based Type 7 COM Express module with DDR4 ECC/non-ECC SDRAM on SODIMM slots, PCIe, 10-Gigabit Ethernet, NC-SI interface, SATA III and USB



The Portwell PCOM-701 Type 7 COM Express module is designed with the Intel® Atom® processor C3000 product family (codenamed Denverton). Specifically, the COM Express 3.0 specification's new Type 7 pinout, when compared to the Type 6 pinout, trades all the graphics interfaces for up to four 10GbE ports and a total of 32 PCIe lanes, ideal for applications in micro server and alike, requiring low power consumption while supporting high computing performance and communication throughput. Portwell's PCOM-B701 features four 10GbE KR, DDR4 ECC/non-ECC memory support, and Gen3 PCIe supporting high speed I/O card. In addition, it is compatible with Type 6 COM Express carrier board.

FEATURES

- Based on the new COM Express Type 7 pinout supporting Intel® Atom® processor C3000 series (codenamed Denverton)
- Support DDR4-2133 ECC/non-ECC SDRAM on three SODIMM sockets, up to 48GB
- Support four 10GbE interfaces
- Support 4x USB 3.0/2.0, 2x SATA III, 12x PCIe x1 Gen2, 1x PCIe x8 Gen3
- Support a wide -40°C to 85°C industrial temperature range

ORDERING GUIDE

PCOM-B701	PCOM-B701. TYPE 7. COM Express Module. Intel Atom C3000 (Denverton). DDR4 ECC/non-ECC. 10GbE
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GENERAL

Form Factor	COM Express basic, 125mm x 95mm
Pinout Type	Type 7
Processor	– Intel® Atom® processor C3000 series (codenamed Denverton) – Up to 16 CPU cores – 7~35W TDP
Chipset	Embedded in SoC
Memory	– Up to 48GB DDR4 at 2133 MT/s – ECC/non-ECC – 3x SODIMM memory channels
Storage Devices	2x SATA III interfaces
USB	4x USB 3.0/2.0
Ethernet	– Intel® Ethernet Controller I210IT – 4x 10GbE KR
PCI Express	– 1x Gen3 PCIe x8 – 12x Gen2 PCIe x1
Extended Temperature Support	Yes, -40°C to 85°C

I/O INTERFACE

Audio	N/A
Graphic Controller	N/A
Carrier Board	Portwell PCOM-C700 Type 7 COM Express Carrier Board

*All information provided is subject to change without notice. Last updated: Aug 7, 2017