



PCOM-B701

Intel® New Generation Networking Processor
Based on Type 7 Basic COM Express 3.0 Module
with DDR4 ECC/Non-ECC SDRAM on Three SO-
DIMM Sockets, 20 PCIe Lanes, 10GbE, NC-SI
Interface, SATA, and USB



Portwell PCOM-B701 is designed with Intel® new Atom™ processor with brand new Type 7 pin definition. It's built in with 10GbE Ethernet KR interface and DDR4 ECC SO-Dimm support which provide high CPU computing, excellent Ethernet performance. Extend PCIe Gen3 ports in PCOM-B701 can support high speed IO card for more applications. In the meantime, it's compatible with Type 6 carrier.

FEATURES

- New Type 7 Specification with new server platform
- Support DDR4-2133 ECC/Non-ECC SDRAM on Three SO-DIMM Sockets, up to 48GB
- Four 10GbE and One GbE Interfaces
- 4x USB 3.0/2.0, 2x SATA III, 12x PCIe x1 Gen 2.0, 1x PCIe x8 Gen 3.0
- Wide-Temp (-40°C to +85°C) Support on Selected SKUs

ORDERING GUIDE

TBD PCOM-B701.TYPE VII. Basic Form Factor.COM Express Module. New server platform/PCH

GENERAL

| | |
|------------------|--|
| Form Factor (mm) | Basic (125 x 95mm) |
| Type | Type 7 |
| CPU/Clock/Cache | Intel® Atom™ Processor (new server pla. orm) New server platform, up to 16 CPU Cores, 7-35W |
| Chipset | SoC |
| Memory | DDR4 ECC/Non-ECC SDRAM, three so-dimms |
| USB | 4 x USB3.0/2.0 |
| PCI Express | 1 x PCIe x8 12 x PCIe x1 |
| Ethernet | Intel® I210IT 4 x KR(10GbE) |

I/O INTERFACE

| | |
|----------------------------|-------------------|
| Audio | N/A |
| Graphic Controller | N/A |
| Carrier Board | PCOM-C700(Type 7) |
| Extend Temperature Support | Yes |

