PCOM-B701GT

Portwell PCOM-B701GT is designed with Intel Atom® C3000 Processor and based on 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 Gen 3 ports in PCOM-B701GT can support high speed IO card for more applications.

FEATURES
- COM Express Type 7 pin out with Intel Atom C3000 processor
- DDR4 2400 MT/s ECC up to 96GB
- Up to 12 PCIe Gen 3 Lanes (based on CPU/HSIO arrangement)
- High-speed Ethernet, 4x 10GbE and 1x GbE
- 4x USB 3.2 Gen 2, 4x USB 2.0, 2x SATA III
- Wide-Temp (-40°C to +85°C) on Selected SKUs

ORDERING GUIDE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB1-3H87Z</td>
<td>(R).PCOM-B701GT-C3558. TYPE VII. Basic Form Factor:COM Express Module Intel Denverton C3558/DDR4 SO-Dimm</td>
</tr>
<tr>
<td>AB1-3H98Z</td>
<td>(R).PCOM-B701GT-C3538. TYPE VII. Basic Form Factor:COM Express Module Intel Denverton C3538/DDR4 SO-Dimm</td>
</tr>
<tr>
<td>AB1-3H89Z</td>
<td>(R).PCOM-B701GT-C3508. TYPE VII. Basic Form Factor:COM Express Module Intel Denverton C3508/DDR4 SO-Dimm</td>
</tr>
<tr>
<td>AB1-3J94Z</td>
<td>(R).PCOM-B701GT-C3758. TYPE VII. Basic Form Factor:COM Express Module Intel Denverton C3758/DDR4 SO-Dimm</td>
</tr>
<tr>
<td>AB1-3H90Z</td>
<td>(R).PCOM-B701GT-C3758. TYPE VII. Basic Form Factor:COM Express Module Intel Denverton C3758/DDR4 SO-Dimm</td>
</tr>
<tr>
<td>TBD</td>
<td>(R).PCOM-B701GT-C3858. TYPE VII. Basic Form Factor:COM Express Module Intel Denverton C3858/DDR4 SO-Dimm</td>
</tr>
<tr>
<td>AB1-3H88Z</td>
<td>(R).PCOM-B701GT-C3958. TYPE VII. Basic Form Factor:COM Express Module Intel Denverton C3958/DDR4 SO-Dimm</td>
</tr>
</tbody>
</table>

GENERAL
- Form Factor: COM Express basic, 125mm x 95mm
- Type: Type 7
- Processor: - Intel Atom® processor C3000 series (codenamed Denverton)  
  - Up to 16 CPU cores  
  - 9.5~31W TDP
- Chipset: Embedded in SoC
- Memory: - Up to 96GB DDR4 at 2133/2400 MT/s  
  - ECC/non-ECC  
  - 3x SO-DIMM memory channels
- Storage: - 2x SATA III  
  - 16GB eMMC 5.0 onboard

ETHERNET INTERFACE
- Intel® Ethernet Controller I210IT  
- 4x 10GbE KR
- PCI Express: - 1x PCIe Gen 3 x8  
  - 2x PCIe Gen 3 x2  
  - 3x PCIe Gen 2 x1
- USB: - 4x USB 3.2 Gen 1  
  - 4x USB 2.0
- Others: SPI, SMBus, GPIO (8-bit, programmable), I2C, UART x2

MECHANICAL & ENVIRONMENT
- Dimension: 125mm x 95mm (4.92” x 3.74“)
- Storage Temperature: -40°C ~ 85°C (-40°F~185°F)
- Operating Temperature: 0°C ~ 60°C (-32°F~140°F)  
  Extended: -40°C ~ 85°C (-40°F~185°F)
- Power DC IN: +12V DC  
  Support AT mode

*All information provided is subject to change without notice. Last updated: August 18, 2020*