Part Number: CCG070

Product Name: COM Express® Type 7 Carrier Board

## **Connect Tech Inc.** Embedded Computing Experts

## COM Express<sup>®</sup> Type 7 **Carrier Board**

Connect Tech's COM Express® Type 7 Carrier Board is based on the PICMG COM Express® COM.0 R3.0 specification. It includes 2x 10G ethernet from SFP+ modules, 2x GbE ports, M.2 NVMe Storage, 4x USB 3.0, full and half size Mini PCIe expansion slots, 8x 3.3V buffered GPIO, and a Console connection via Micro USB.

The carrier board is ideal for high-compute, enterprise level applications that have a need for a small form factor rugged solution providing access to high-end Xeon D class processors.



## FEATURES

✓ COM Express Type 7 Module Support

✓ Dual 10GbE Ethernet

✓ Ultra High Speed Storage with M.2 NVMe SSD support

Extremely Small Form Factor: 125 x 95mm

✓ Extended Temperature Range -40°C to +85°C

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| Specifications                      |  |
|-------------------------------------|--|
| COM Express Module<br>Compatibility | COM Express Type 7 Modules     PICMG COM Express® COM.0 R3.0     Support for current and next-gen Xeon-D     (Broadwell DE) processor modules  |
| 10 Gigabit Ethernet                 | <ul> <li>2 x 10GbE (via SFP+ cages)</li> <li>Integrated Extended Temperature 10Gbps PHY<br/>located directly on the carrier board</li> <li>Capable of 10GBASE-SR, 10GBASE-LR or 10GBASE-T using when<br/>using the appropriate SFP+ transceiver module.</li> </ul> |
| Gigabit Ethernet                    | 2 x GbE Ports (via RJ-45)<br>1000BASE-T (10/100/1000Mbps) Capable  |
| Storage                             | • 1 x M.2 2280 M-Key Slot (Dual function PCle + SATA)<br>- NVMe (PCle x4 Gen3) Capable<br>- SATA III (6Gbps) Capable<br>• 1 x Standard SATA Port (7-Pin)   |
| USB                                 | 4x USB 3.0 ports   |
| Expansion                           | 1x mini PCle slot full size (USB + PCle)<br>1x mini PCle slot half size (USB + PCle)   |
| Serial                              | 1x CPU Console UART (via Micro USB)<br>1x General Purpose UART (via 2mm header)  |
| GPIO                                | 8x 3.3V buffered GPIO  |
| Input Power                         | +12V DC only   |
| Display Output                      | None (Headless System)<br>Initial Setup/Debug can be achieved via MiniPCle graphics module   |
| Misc.                               | Reset Button, Power Button, Sys Ctrl   |
| Dimensions                          | 125mm x 95mm (4.921" x 3.74")  |
| Operating Temperature               | -40°C to 85°C (-40°F to 185°F)   |

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