Part Number: CCG070

Product Name: COM Express® Type 7 Carrier Board

Connect Tech Inc. Embedded Computing Experts

COM Express[®] 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 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	 2 x 10GbE (via SFP+ cages) Integrated Extended Temperature 10Gbps PHY located directly on the carrier board Capable of 10GBASE-SR, 10GBASE-LR or 10GBASE-T using when using the appropriate SFP+ transceiver module.
Gigabit Ethernet	2 x GbE Ports (via RJ-45) 1000BASE-T (10/100/1000Mbps) Capable
Storage	• 1 x M.2 2280 M-Key Slot (Dual function PCle + SATA) - NVMe (PCle x4 Gen3) Capable - SATA III (6Gbps) Capable • 1 x Standard SATA Port (7-Pin)
USB	4x USB 3.0 ports
Expansion	1x mini PCle slot full size (USB + PCle) 1x mini PCle slot half size (USB + PCle)
Serial	1x CPU Console UART (via Micro USB) 1x General Purpose UART (via 2mm header)
GPIO	8x 3.3V buffered GPIO
Input Power	+12V DC only
Display Output	None (Headless System) 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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