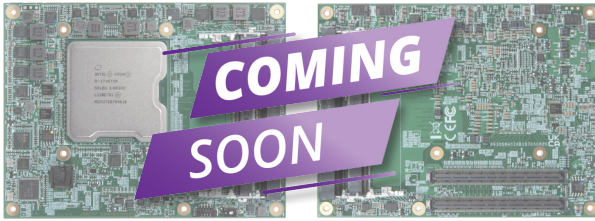


PCOM-B707GT

COM Express Type 7 Basic Module based on Intel® Xeon® D-1800 Processors with 4x 10G KR, Dual SODIMM up to 64GB and NVMe (option) up to 1TB



FEATURES

- Intel® Xeon® D-1800 Series Processors (formerly Ice Lake D Refresh LCC)
- Intel® Deep Learning Boost (Intel DL Boost), Intel® Time Coordinated Computing (Intel TCC), Intel® QuickAssist Technology (Intel QAT)
- 14x 10GBASE-KR (selected SKUs)
- 1x PCIe 4.0 x16 and 16x PCIe 3.0
- 4x USB3.2 Gen 1/USB2.0, 2x SATAIII, 2x UART
- NVMe up to 1TB (option)
- Extended operating temperature support -40°C ~ 80°C (selected SKUs)



PCOM-B707GT, a COM Express® Type 7 Basic size module, features Intel® Xeon® D-1800 processor series of high-performance SoC with integrated Ethernet and high-capacity I/Os for IoT and edge network platforms to deliver server-grade computing. It offers from 4 up to 10 computing cores, dual-channel DDR4, 16x PCIe Gen4, 16x PCIe Gen3, 4x 10GBASE-KR interface (selected SKUs), and expansive COM Express Type 7 I/O support. PCOM-B707GT provides server-class performance in small form factor making it ideal for diverse AI computing, IoT edge platforms and software defined networking (SDN) applications.

General

| General | | | | | | |
|---|---|----------|----------|----------|--------------------------------------|-----------|
| Product | PCOM-B707GT | | | | | |
| Form Factor | Type 7, Basic Form Factor COM-Express® (125 x 95 mm) | | | | | |
| Processor | Network and Enterprise (0°C to 60°C) | | | | Extended Temperature (-40°C to 85°C) | |
| | D-1844NT | D-1823NT | D-1813NT | D-1735TR | D-1848TER | D-1715TER |
| Core | 10 | 6 | 4 | 8 | 10 | 4 |
| Freq. | 2.0 GHz | 2.8 GHz | 2.2 GHz | 2.4 GHz | 2.0 GHz | 2.4 GHz |
| Turbo | 3.1 GHz | 3.5 GHz | 2.4 GHz | 3.5 GHz | 3.1 GHz | 3.5 GHz |
| Cache | 15 MB | 10 MB | 10 MB | 15 MB | 15 MB | 10 MB |
| Processor TDP | 55W | 55W | 42W | 59W | 57W | 50W |
| Intel® QuickAssist Technology (Intel® QAT) | Yes | Yes | Yes | No | No | No |
| Intel® Time Coordinated Computing (Intel® TCC) | No | No | No | Yes | Yes | Yes |
| Intel® Deep Learning Boost (Intel® DL Boost) on CPU | Yes | Yes | Yes | Yes | Yes | Yes |
| Ethernet 10G KR | 4 | 4 | 4 | 4 | 4 | |
| BIOS | AMI BIOS | | | | | |
| ECC | Yes | | | | | |
| Storage | NVMe up to 1TB (optional) | | | | | |
| Memory | 2x SO-DIMM DDR4 up to 64GB 2933 MT/s | | | | | |

I/O Interface

| | | |
|----------------|--|---------------|
| SATA / Storage | 2x SATA III | |
| USB | 4 x USB 3.2 Gen1 & 4 x USB 2.0 | |
| Ethernet | Intel® I226LM | Intel® I226IT |
| Serial I/O | GPIO: 8 GPIO | |
| | I ² C: Baud Rate: 400KHz | |
| | SMBus: Baud Rate: 100KHz | |
| | UART: 2 Serial Port (Tx/Rx) | |
| PCI Express | 16x PCIe 3.0 Lanes 16x PCIe 4.0 Lanes | |
| Security | TPM 2.0 | |

PCOM-B707GT

MECHANICAL & ENVIRONMENT

| | |
|-----------------------|--|
| Dimension | 125 x 95 mm |
| Power DC IN | Normal : +12V DC AT/ATX Mode |
| Storage Temperature | -40°C to 80°C |
| Operating Temperature | -40°C to 80°C (Selected SKUs) 0°C to 60°C |
| Certification | Contact us |
| MTBF | Contact us |
| Vibration | Contact us |
| OS | Windows 10 IoT Enterprise |
| | Windows Server |
| | Linux |

ORDERING GUIDE

| Product | Ordering P/N | Status |
|----------------------|--------------|----------------|
| PCOM-B707GT-D1848TER | In Process | In Development |
| PCOM-B707GT-D1844NT | In Process | In Development |
| PCOM-B707GT-D1823NT | In Process | In Development |
| PCOM-B707GT-D1813NT | In Process | In Development |
| PCOM-B707GT-D1735TR | In Process | In Development |
| PCOM-B707GT-D1715TER | In Process | In Development |

| Accessory | Ordering P/N | Status |
|--------------------------------------|--------------|----------------|
| Cooler | In Process | In Development |
| Heat Sink | In Process | In Development |
| Heat Spreader | In Process | In Development |
| PCOM-C701-BMC (ATX Carrier board) | AB1-3K14Z | Available |

BLOCK DIAGRAM

PCOM-B707GT

COM Express® Type 7
Basic Module 125x95mm

AT / ATX Mode

-40° C ~ +85° C
(Selected SKUs)

