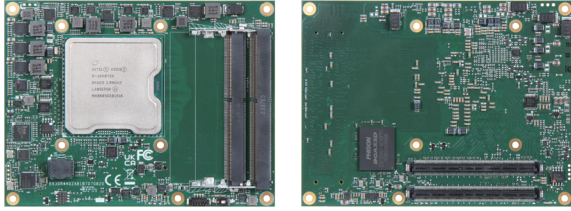


PCOM-B707GT

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



FEATURES

- Intel® Xeon® D-1800 Series Processors (formerly Ice Lake D Refresh LCC)
- DDR4 2933MT/s ECC / Non-ECC SDRAM up to 64MB
- 4x 10GBASE-KR (select SKUs)
- 1x PCIe 4.0 x16 and 16x PCIe 3.0
- 4x USB3.2 Gen 1, 4x USB2.0, 2x SATAIII, 2x UART
- NVMe up to 1TB (select SKUs)
- Extended operating temperature support -40°C ~ 80°C (select SKUs)
- Intel® DL Boost, Intel® TCC, Intel® QAT



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 (select 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

Product	PCOM-B707GT					
Form Factor	COM Express® Type7 Basic Size (125 X 95mm)					
Processor	Network and Enterprise (0°C to 60°C)				Extended Temperature (-40°C to 80°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	4
BIOS	AMI BIOS					
ECC	Yes					
Storage	NVMe 1TB	NVMe 256GB	N/A	NVMe 256GB	NVMe 1TB	N/A
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

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 SKU) 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	AB1-3S77	Available
PCOM-B707GT-D1844NT	AB1-3S76	Available
PCOM-B707GT-D1823NT	AB1-3S75	Available
PCOM-B707GT-D1813NT	AB1-3S74	Available
PCOM-B707GT-D1735TR	AB1-3S73	Available
PCOM-B707GT-D1715TER	AB1-3S72	Available

Accessory	Ordering P/N	Status
Cooler	B9972180	Available
Heat Sink	B830C060	Available
Heat Spreader	B830C070	Available
PA-C3L-D17 (Ethernet PHY Card)	AB9-3439Z	Available
PCOM-C701-BMC (ATX Carrier board)	AB1-3K14Z	Available

BLOCK DIAGRAM

PCOM-B707GT

