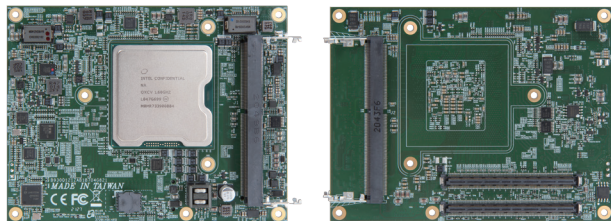


PCOM-B704-GT

COM Express Type 7 Basic module with Intel® Xeon® D-1700 series Processor (Ice-Lake-D LCC)



FEATURES

- Intel® Xeon® D-1700 Series Processor (Ice-Lake-D LCC)
- AI/Deep Learning Accelerate Data Analytics with Intel® AVX-512 and VNNI
- 4x USB2.0/3.2 Gen 2x1, 2x SATAIII, 4x 10G KR, 2x UART
- TDP 40w to 67w consumption
- Selected SKU support -40°C to 85°C wide temperature



PCOM-B704GT, a Type 7 COM Express® basic size(125 x 95 mm) module which based on Intel® Xeon® Ice-Lake-D LCC D-1700 series processors. It is compatible with COMe 3.0 standard. In this architecture, it could provide up to 10 cores processors within the TDP from 40w to 67w. A selected SKU support wide-temperature range. PCOM-B704GT features four 10GbE KR LAN interfaces, 16 PCIe 4.0 lanes and 16 PCIe 3.0 lanes, TPM 2.0 and two DDR4 SO-DIMM up to 64GB in total. Portwell wants to promote PCOM-B704GT as a vertical solution to aim in the different versatile applications, such as edge computing, automation, military, transportation and so on.

General

Product	PCOM-B704GT				
Form Factor	Type 7, Basic Form Factor COM-Express® (125 x 95 mm)				
Processor	Intel® Xeon® D-1700 series				
	D-1712TR	D-1715TER	D-1735TR	D-1732TE	D-1746TER
Core	4	4	8	8	10
Freq.	2.0 GHz	2.4 GHz	2.2 GHz	1.9 GHz	2.0 GHz
Turbo	2.5 GHz	2.9 GHz	2.7 GHz	2.4 GHz	2.5 GHz
Cache	10MB	10MB	15MB	15MB	15MB
Processor Graphics	N/A				
Graphics Base Frequency	N/A				
Ethernet	Intel® I210IT				
Processor TDP	40W	50W	59W	52W	67W
BIOS	AMI BIOS				
ECC Memory Supported	Yes				
Memory	2x DDR4 SO-DIMM up to 64GB 2933MT/s				
Temperature Range	0 ~ 60 °C	-40 ~ 85 °C	0 ~ 60 °C	-40 ~ 85 °C	-40 ~ 85 °C

I/O Interface

SATA	2 x SATA III	
USB	4 x USB 3.2 Gen1/USB 2.0	
Ethernet	4x 10G KR 1x GbE LAN	
Serial I/O	GPIO	8 bit GPIO (Default 4 input/4 output)
	I ² C	Frequency:50kHz (Default) / 400kHz (available)
	SMBus	Frequency:100kHz (Default) / 1MHz (available)
	UART	2 Serial Port (TX/RX signal only)
PCI Express	16x PCIe 3.0 16x PCIe 4.0	
Display	N/A	
Security	TPM 2.0, Intel®AES	

MECHANICAL & ENVIRONMENT

Dimension	125 x 95 mm
Power DC IN	Normal: +12V DC AT/ATX mode
Storage Temperature	-40 ~ 85 °C
Operating Temperature	-40 ~ 85 °C (Selected SKU 0 ~ 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-B704GT-D1746TER	TBD	In Development
PCOM-B704GT-D1735TR	TBD	In Development
PCOM-B704GT-D1732TE	TBD	In Development
PCOM-B704GT-D1715TER	TBD	In Development
PCOM-B704GT-D1712TR	TBD	In Development

Accessory	Ordering P/N	Status
Cooler	TBD	In Development
Heat Sink	TBD	In Development
Heat Spreader	TBD	In Development

BLOCK DIAGRAM

PCOM-B704-GT

COM Express® Type 7
Basic Module 125x95mm

AT / ATX Mode

-40°C ~ +85°C
(Selected SKUs)

