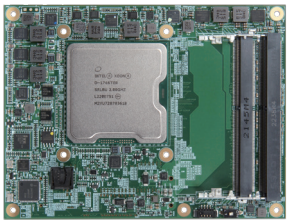
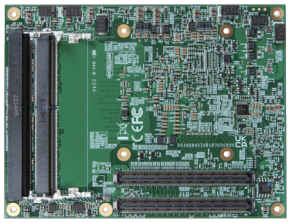
PCOM-B705GT

COM Express Type 7 Basic Module based on Intel® Xeon® D-1700 Processors with Three Channels and Four SODIMM slots





FEATURES

- Intel® Xeon® D-1700 Processors for Edge IoT
- Intel® Deep Learning Boost, and Time Coordinated Computing
- 4x USB2.0/3.2 Gen 2x1, 2x SATAIII, 4x 10G KR, 2x UART
- Three Memory Channels with Maximum Four SODIMM slots
- Selected SKUs support -40°C to 80°C Extended Temperature for Extreme Environment

PCOM-B705GT, a COM Express® Type 7, basic size module based on Intel® Xeon® D-1700 Family. It is high-performance SoC with integrated Ethernet and high-capacity I/Os for IoT to deliver server-class computing. PCOM-B705GT provide server-grade performance in small form factor with option from 4 cores up to 10 cores, three channels DDR4, and full COMe Type 7 I/O support. PCOM-B705GT is the best platform for edge AI computing and software defined networking (SDN) applications.

General

Model Name	PCOM-B705GT Series				
Form Factor	COM-Express® Type 7, Basic Size (125mm x 95mm)				
Processor	Intel® Xeon® D-1700 Family				
	D-1712TR	D-1715TER	D-1735TR	D-1732TE	D-1746TER
Core / Thread Count	4C/ 8T	4C / 8T	8C / 16T	8C / 16T	10C / 20T
Base Frequency	2.0 GHz	2.4 GHz	2.2 GHz	1.9 GHz	2.0 GHz
Boost Frequency	2.5 GHz	2.9 GHz	2.7 GHz	2.4 GHz	2.5 GHz
Cache	10MB	10MB	15MB	15MB	15MB
Integrated Ethernet	50G	50G	50G	50G	100G
Ethernet	Intel® I210AT / I210IT				
Processor TDP	40W	50W	59W	52W	67W
BIOS	AMI BIOS				
ECC Memory Supported	Yes				
Memory	3x DDR4 SODIMMs, option for 4x SODIMMs and up to 128GB, 2666MT/s				
Temperature Range	0 ~ 60 °C	-40 ~ 80 °C	0 ~ 60 °C	-40 ~ 80 °C	-40 ~ 80 °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)
	I²C	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	

PCOM-B705GT

MECHANICAL & ENVIRONMENT

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

ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B705GT-D1746TER	AB1-3P64	Mass Production
PCOM-B705GT-D1735TR	AB1-3P65	Mass Production
PCOM-B705GT-D1732TE	AB1-3P66	Mass Production
PCOM-B705GT-D1715TER	AB1-3P67	Mass Production
PCOM-B705GT-D1712TR	AB1-3P68	Mass Production

Accessory	Ordering P/N	Status
Cooler	B9972180	Mass Production
Heat Sink	B830C060	Mass Production
Heat Spreader	B830C070	Mass Production

BLOCK DIAGRAM

PCOM-B705GT

COM Express® Type 7 Basic Module 125x95mm | AT / ATX Mode | -40˚ C ~ +85˚ C (Selected SKUs)

