PCOM-B700G

Intel® Pentium® / Xeon® D-1500 series Processor based on Type 7 COM Express® Rev3.0 module with DDR4 ECC/Non-ECC 3x SO-DIMM sockets, 1x PCIe 3.0 x16, 1x PCIe 3.0 x4, and 8x PCIe 2.0 x1, TPM 2.0, and 2x KR

FEATURES

- Intel® Pentium® / Xeon® D-1500 series Processors
- Support DDR4-2133 MT/s ECC/Non-ECC SDRAM on three SO-DIMM sockets, up to 48GB
- Support USB 2.0/3.0, 2x SATA III, 8x PCIe 2.0 x1, 1x PCIe 3.0 x4, and 1x PCIe 3.0 x16

PCOM-B700G, a COM Express® Type 7 Basic Module designed with Intel® Pentium® and Xeon® D-1500 series processors. PCOM-B700G targets for Networking, Micro server applications. 10GbE LAN feature and three DDR4 SO-DIMM sockets support up to 2133MHz and 48GB memory.

General

Product	PCOM-B700G									
Form Factor	COM Express® Type 7 Basic Rev. 3.0									
Processor	Intel® Pentium®				Intel® Xeon®					
	D1507	D1508	D1517	D1519	D-1527	D-1537	D-1539	D-1548	D-1557	D-1577
Core	2	2	4	4	4	8	8	8	12	16
Freq.	1.20 GHz	2.20 GHz	1.60 GHz	1.50 GHz	2.20 GHz	1.70 GHz	1.60 GHz	2.00 GHz	1.50 GHz	1.30 GHz
Turbo	1.20 GHz	2.60 GHz	2.20 GHz	2.10 GHz	2.70 GHz	2.30 GHz	2.20 GHz	2.60 GHz	2.10 GHz	2.10 GHz
Cache	3 MB	3 MB	6 MB	6 MB	6 MB	12 MB	12 MB	12 MB	18 MB	24 MB
Processor Graphics	N/A									
Graphics Base Frequency										
Graphics Max Dynamic Frequency										
HW Encoding										
HW Decoding										
HW Acceleration										
Processor TDP	20 W	25 W	25 W	25 W	35 W	35 W	35 W	45 W	45 W	45 W
BIOS	AMI Aptio5 UEFI BIOS									
ECC Memory Supported	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

I/O Interface

SATA	2x SATA III	
USB	4x USB 2.0 4x USB 3.0	
Ethernet	Intel® Ethernet Controller I219AT for 1xGbE. 2x KR for 10GbE	
Serial I/O	GPIO	8 GPIO (4 GPI and 4 GPO)
	I²C	Baud Rate : 400KHz
	SMBus	Baud Rate : 100KHz
	UAR	2 Serial Port (TX and RX)
PEG	1x PCIe 3.0 x16 (1x16 / 2x8 / 4x4 / 1x8 + 2x4)	
PCI Express	8x PCIe 2.0 x1 (8x1 / 4x2 / 2x4 / 1x4 + 2x2) 1x PCIE 3.0 x4 (1x4 / 2x2 / 4x1)	
Security	TPM 2.0 (Infineon SLB9665 , optional) , Intel® AES	

PCOM-B700G

MECHANICAL & ENVIRONMENT

Dimension	125mm x 95mm (4.92" x 3.74")
Power DC IN	Nominal : +12V DC AT / ATX Mode
Storage Temperature	0°C ~ +60°C
Operating Temperature	0°C ~ +60°C Extended : -40°C ~ +80°C (Processor dependent)
Certification	Contact us
MTBF	Over 100,000 hours at 40°C
Vibration	Contact us
OS	Windows 7/8/8.1/10 Linux Fedora 22 / Ubuntu 15.04 / CentOS 7

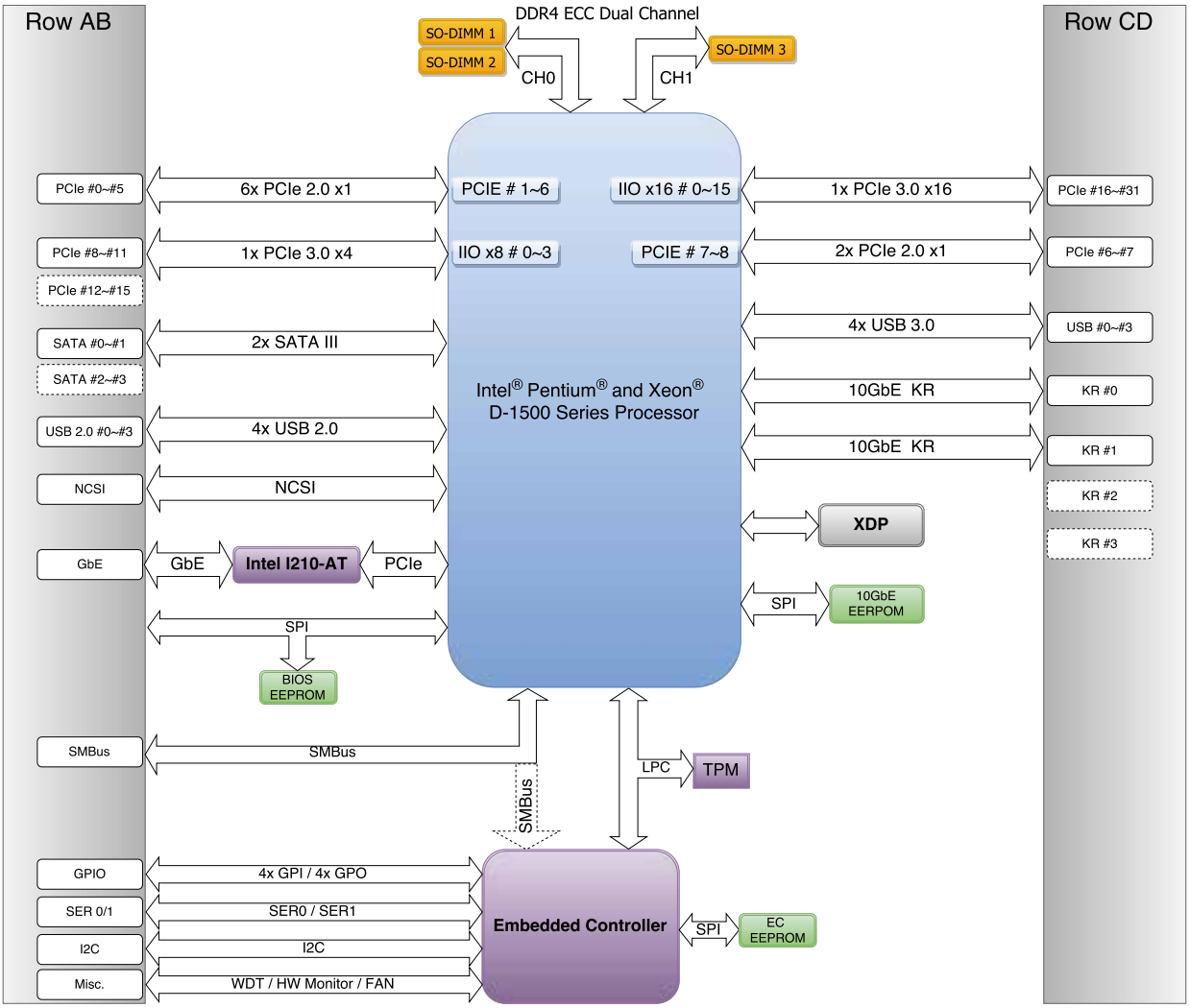
Accessory	Ordering P/N	Status
PCOM-B634VG Cooler	B9971410	Available
PCOM-C609 (uATX ATX Carrier Board)	AB1-3D19	Available

ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B700G-D1577	AB1-3G83	Available
PCOM-B700G-D1557	Contact us	Available
PCOM-B700G-D1548	AB1-3F53	Available
PCOM-B700G-D1539	AB1-3F52	Available
PCOM-B700G-D1537	AB1-3F52	Available
PCOM-B700G-D1527	AB1-3F51	Available
PCOM-B700G-D1519	AB1-3G80	Available
PCOM-B700G-D1517	AB1-3G77	Available
PCOM-B700G-D1508	AB1-3G78	Available
PCOM-B700G-D1507	AB1-3G79	Available

Accessory	Ordering P/N	Status
PCOM-B700G Cooler	B9971570	Available
PCOM-C700 (ATX Carrier Board)	AB1-3F19	Available

BLOCK DIAGRAM

PCOM-B700G

COM Express® Type 7 Basic Module 125x95mm | AT / ATX Mode | +12VDC | -40° C ~ +80° C (Selected SKUs)