



FEATURES

- Intel® Pentium® / Xeon® D-1500 series ProcessorT
- 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 1HWZRUNLQJ0LFURVHUYHUDDSSOLFQDWRQV*E(\$IHDWXUHDQGWKUH562;00VRFNHWWVXSSRUWXSWR0+DQG*%PHPRU\

FEATURES

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.	*+] *+]	*+] *+]	*+] *+]	*+] *+]	*+] *+]	*+] *+]				
Turbo	*+] *+]	*+] *+]	*+] *+]	*+] *+]	*+] *+]	*+] *+]				
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
Memory	3x DDR4 SO-DIMM sockets Dual channel Up to 48GB 2133 MT/s									

PORTS

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)
	I ² C	%DXG5DWH.+]
	SMBus	%DXG5DWH.+]
	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	730,QQHRQ6/%RSWLRQDO,QWHO ® AES	

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)
	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

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)

