

PCOM-B634VG

Intel® Pentium® / Xeon® D-1500 series Processor based on Type 6 COM Express® 2.0 module with DDR4 ECC/Non-ECC 3x SO-DIMM sockets, VGA, DDI, PCIe 16, 10GbE, USB 3.0, and SATA 6 Gb/s



FEATURES

- Intel® Pentium® / Xeon® D-1500 series Processor 14nm process (Broadwell-DE)
- Support DDR4-2133/2400 SDRAM on Three SO-DIMM Sockets, up to 48GB
- One VGA, One HDMI, and Two 10GbE Interfaces
- 7x USB 2.0, 4x USB 3.0, 4x SATA III, 8x PCIe x1 Gen 2.0, and 1x PCIe x16 Gen 3.0



Portwell PCOM-B634VG is designed with Intel® new Xeon processor with 8 CPU cores, 10GbE Ethernet KR interface and DDR4 ECC/Non-ECC SO-Dimm support which provide high CPU computing, excellent Ethernet performance. Extend PCIe Gen3 ports in PCOM-B634 can support high speed IO card for more application. With VGA and legacy interface support, customer can upgrade system easy and fast.

General

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Product	PCOM-B634					
Form Factor	Type 6, Compact Form Factor Com Express (125 x 95mm)					
Processor	Intel® Xeon®			Intel® Pentium®		
	D1577	D1548	D1527	D1519	D1517	D1508
Core	16	8	4	4	4	2
Freq.	1.30 GHz	2.00 GHz	2.20 GHz	1.50 GHz	1.60 GHz	2.20 GHz
Turbo	2.10 GHz	2.60 GHz	2.70 GHz	2.10 GHz	2.20 GHz	2.60 GHz
Cache	24 MB	12 MB	6 MB	6 MB	6 MB	3 MB
Processor Graphics	SM750					
Graphics Base Frequency	N/A					
Graphics Max Dynamic Frequency						
HW Encoding						
HW Decoding						
HW Acceleration						
Processor TDP	45 W	45 W	35 W	25 W	25 W	25 W
BIOS	AMI UEFI BIOS					
ECC Memory Supported	Yes					
Memory	Supports up to 48GB DDR4 2133/2400 MT/s SDRAM					

I/O Interface

SATA	4x SATA III	
USB	4 x USB2.0 4 x USB3.0	
Ethernet	Intel® Ethernet Controller I210LM for 1GbE. 2x KR for 10GbE	
Serial I/O	GPIO	8 GPIO (4 GPI and 4 GPO)
	I ² C	Baud Rate : 400KHz
	SMBus	Baud Rate : 100KHz
	UART	2 Serial Port (TX and RX)
PEG	N/A	
PCI Express	1x PCIe 3.0 x16 8x PCIe 2.0 x1	
Display	VGA: 1920x1440@24bpp	
Security	TPM 2.0 (Infineon SLB9665) , Intel® AES	

MECHANICAL & ENVIRONMENT

Dimension	125x95mm
Power DC IN	+12VDC
Storage Temperature	-40°C~+85°C
Operation Temperature	-40°C~+85°C
Certification	Contact us
MTBF	Over 100,000 hours at 40°C at both 35° C and 55° C
Vibration	Random 5Hz to 2KHz, 7.7 grms, 10min in each of 3 axes
OS	Windows 64 bit OS support RHEL/SUSE/Fedora/Ubuntu/CentOS/Xen & KVM/Yocto/ FreeBSD

ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B634VG-D-1577	AB1-3D94	Available
PCOM-B634VG-D-1548	AB1-3D95	Available
PCOM-B634VG-D-1527	AB1-3D96	Available
PCOM-B634VG-D-1519	AB1-3D97	Available
PCOM-B634VG-D-1517	AB1-3D98	Available
PCOM-B634VG-D-1508	AB1-3D99	Available

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

BLOCK DIAGRAM

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