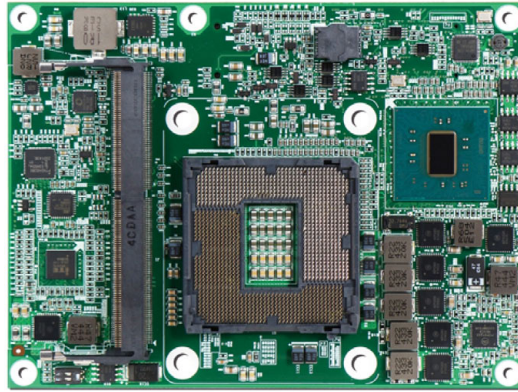




PCOM-B642VG

Intel® 7th Generation Core™ Kaby Lake-S processors based on Type VI Compact-COM Express 2.0 module with DDR4 SDRAM on Two SO-DIMM slots, VGA, eDP, DP, Gigabit Ethernet, PCIE, SATA and USB



PCOM-B642VG is Portwell's second module with desktop CPU. It provides customers four important factors, high performance with affordable cost, DDR 4 memory support, Gen 3 PCIe support, and 30% faster graphic performance. The desktop CPU on module is a new idea which offers customer higher computing power but lower cost comparing to mobile solutions. The DDR4 support is also another important point for higher performance. PCOM-B642VG can support both ECC and Non-ECC DDR4 by different PCH SKUs. This is good for different applications. The Gen 3 PCIe support provides faster PCIe speed so that the performance of PCIe devices will be better. It is crucial for Networking and Medical related applications. PCOM-B642VG provides one PCIe16, eight PCIe1 (Option to one PCIe4), four USB 3.0, and four SATA3.

FEATURES

- Intel® 7th Core™ Processors Support (Kaby Lake-S 35W)
- Support 2x DDR4-2400 ECC/Non-ECC SO-DIMMs, up to 32GB
- Support 1x Gen3 PCIe x16, 8x Gen3 PCIe x1 (Option to 1x Gen3 PCIe x4)
- Support 4x SATA3 and 4x USB3.0
- Support VGA for legacy applications
- Support TPM, I2C, SMBUS, and UART

ORDERING GUIDE

TBD	PCOM-B642VG.TYPE VI.Kaby Lake-S.Basic Form Factor.Com Express Module.ECC/Non-ECC.DDR4
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GENERAL

Form Factor (mm)	Basic (125 x 95mm)
Type	Type 6
CPU/Clock/Cache	Intel® 7th Generation Core™ 35W Desktop processor i7-6700TE/ i5-6500TE/ i3-6100TE Up to 4 CPU Cores Smart Cache 4MB to 8MB
Chipset	Q170/ H110/ C236
Memory	DDR4-2400MT/s Non-ECC/ ECC 2 Memory channel
USB	4 x USB 3.0 8 x USB 2.0
PCI Express	1 x PCIe x16 8 x PCIe x1
Ethernet	Intel® I219LM

I/O INTERFACE

Audio	Intel® High definition Audio
Graphic Controller	Intel® HD Graphics 630
Carrier Board	PCOM-C605 (Type 6)
Extend Temperature Support	Yes