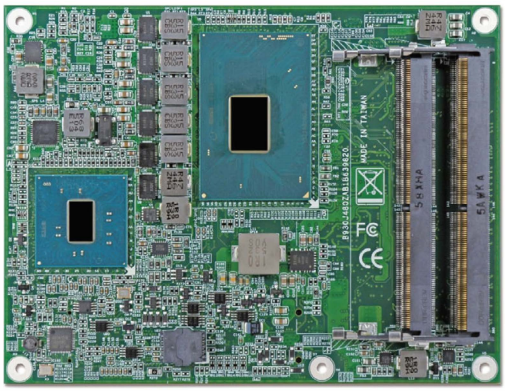
PCOM-B643VG

Intel® Core™ 7th Generation Processor based on Type VI COM Express module with DDR4 SDRAM, VGA, LVDS, Gigabit Ethernet, SATA 3.0 and USB



PCOM-B643VG brings three important factors, DDR 4 memory support, Gen 3 PCIe support, and 30% faster graphic performance. The DDR4 is trend and it supports both ECC and Non-ECC with the same pin definition. In other words, customer can use both ECC and Non-ECC memories depending their application and demand. In order to achieve that, all the PCH SKUs are considered in development stage to make sure that customer has various models to meet different requirements in cost, performance, and memory type. The Gen 3 PCIe support provides faster PCIe speed so that the performance of PCIe expansion card will be better. It is crucial for Networking and Medical related applications. The enhanced graphic performance brings 4K support.

FEATURES

- Kaby Lake-H is the 7th Generation Intel® CoreTM Processor with 14nm and brand new architecture provide more performance
- Seek mobile solution but with high performance and medium TDP
- Support faster I/O interfaces on eight PCI Express Gen3 lanes (four x 1 can be configured to on x4 lane)

ORDERING GUIDE

TBD	PCOM-B643VG.TYPE VI.Skylake-H.Basic Form Factor.Com Express Module.ECC/Non-ECC.DDR4

GENERAL

Form Factor (mm)	Basic (125 x 95mm)
Type	Type 6
CPU/Clock/Cache	Intel® 7th Generation Core™ H Series CPU
Chipset	QM175/ HM175/ CM238
Memory	DDR4-2133MT/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	IIntel® High definition Audio
Graphic Controller	Intel® HD Graphics 630
Carrier Board	PCOM-C605 (Type 6)
Extend Temperature Support	0~60'C support