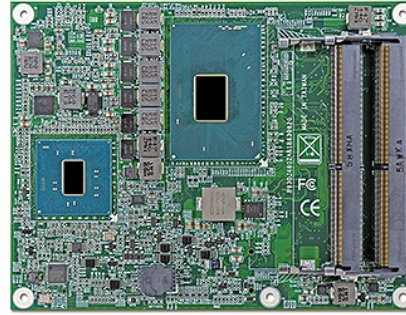
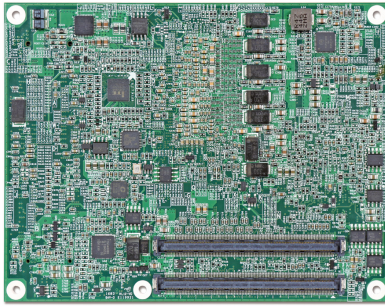


PCOM-B639VG

6th Generation Intel® Core™ Processor based on Type VI COM Express Module with DDR4 SDRAM, VGA, LVDS, Gigabit Ethernet, SATA 3.0 and USB



Designed with the 6th generation Intel® Core™ processor family (formally Skylake), the PCOM-B639VG features DDR4 memory support (both ECC and non-ECC), Gen3 PCIe interface, and 30% faster graphic performance. Specifically, Gen 3 PCIe supports greater PCIe performance, crucial for networking and medical applications. Also, the enhanced graphic feature supports 4K performance.

FEATURES

- 6th generation Intel® Core™ processors with 14nm process and brand new architecture delivering greater performance
- Mobile solution but with high performance and medium TDP
- Support faster I/O interfaces on eight PCI Express Gen3 lanes (four x1 can be configured to one x4 lane)

ORDERING GUIDE

Contact Us	PCOM-B639VG. TYPE VI. 6th Gen Intel Core Skylake-H. Basic Form Factor. COM Express Module. ECC/Non-ECC. DDR4
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GENERAL

Processor	- 6 th generation Intel® Core™ processors with 14nm process - Turbo mode - SMT: 2~4 threads/core
Chipset	Intel® QM170 chipset
BIOS	- AMI Aptio BIOS - Support UEFI, ACPI, SMBIOS, Compatibility Support Module
Memory	Support dual-channel memory up to 32GB DDR4-2133 on two 204-pin SO-DIMM sockets
Storage Devices	4x SATA 6.0Gb/s
Watchdog Timer	Programmable via S/W from 1 sec to 255 min
Hardware Monitoring	CPU, voltage and temperature
Expansion Interface	- Eight PCI Express x1 (Gen 3.0) - One PCI Express x16 (Gen 3.0) - I2C interface - SMBus interface - TPM interface - LPC interface - UART interface

I/O INTERFACE

Super I/O	N/A (on carrier board)
Audio	HDA controller integrated
Ethernet	Onboard Intel I219LM
Serial Port	One serial RX/TX supported from onboard EC (embedded controller)
USB	- Eight USB 2.0 ports - Four USB 3.0 ports
Keyboard & Mouse	KBC controller integrated in embedded controller
GPIO	8bit configurable controlled by embedded controller

DISPLAY

Graphic Controller	Intel® HD Gen9 graphics, supporting DX 11/12, OpenGL 4.3/4.4, ES 2.0, OpenCL 2.x
Graphic Memory	Dynamic share system memory up to 1GB of 2GB system memory
Display Interface	- VGA, LVDS/eDP, 2x DDI (DP/HDMI/DVI) - 3x DisplayPort, resolution up to 4K x 2K

Mechanical & Environment

Dimension	- 125mm (L) x 95mm (W)
Power Supply	- Typical: 12V, 5VSB, VBAT - Support AT and ATX mode
Environment	- Operating Temperature: 0~60°C - Storage Temperature: -20~80°C - Relative Humidity: 5~90%, non-condensing

