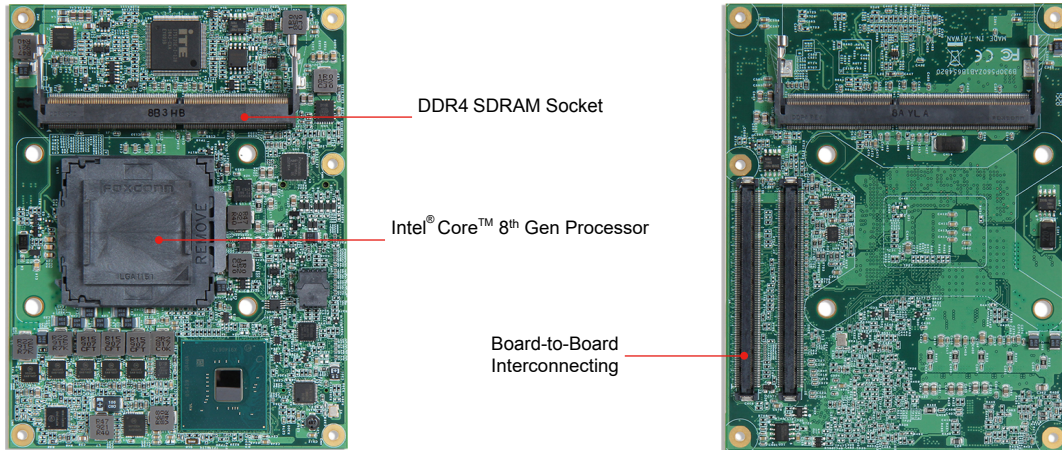


PCOM-B654GL

8th Gen Intel® Core™ Processor (Coffee Lake-S) based Type VI COM Express module with DDR4 SO-DIMM, DDI, LVDS, Gigabit Ethernet, SATA 3.0 and USB 3.1 Gen 2



PCOM-B654GL is designed to offer good EMC protection by Intel® Core™ 8th gen processors (codenamed Coffee Lake-S). The desktop CPU on module offers customer higher computing power but lower cost comparing to mobile solutions.

PCOM-B654GL is compatible with COM Express 3.0 Type 6 carrier board and supports both ECC and Non-ECC DDR4 by different PCH SKUs, which can be adapted to different applications. This module provides one PCIe16, eight PCIe1 (Option to one PCIe4), four USB 3.1, and four SATA III.

FEATURES

- Intel® 8th gen Core™ i3/i5/i7/ Pentium®/Celeron® processors in LGA 1151 package provides cost effective solutions
- Delivers up to 64GB dual channel DDR4 2666 MT/s ECC/Non-ECC SO-DIMM
- Supports up to 24x PCI Express lanes, 4x SATA III
- Rich I/O connections such as 2x serials ports, 4x USB 3.0, 8x USB 2.0, 4x SATA 3.0 ports
- Suitable for desktop solution with high performance

ORDERING GUIDE

AB1-3J47	PCOM-B654GL-Q370
AB1-3J46	PCOM-B654GL-C246

PACKING LIST

One PCOM-B654GL COM-Express module
One Driver CD



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General

Form Factor (mm)	Basic size (125 x 95 mm)
Type	COM Express Type VI
Processor	Intel® 8 th Generation Core™ 35W Desktop processor i7-8700T / i5-8500T / i3-8100T / G5400T / G4900T
Chipset	Intel Q370 / C246
Memory	- Dual Channel DDR4 2666 MT/s on one 260-pin SO-DIMM socket - Supports ECC/Non-ECC
Storage Devices	4x SATA III
Watchdog Timer	Programmable by embedded controller
Expansion Interface	1x PCIe x16 Gen 3 and 8x PCIe x1 Gen 3

I/O INTERFACE

Audio	Intel® High definition Audio
Ethernet	Intel® I219-LM
Serial Port	Two series RX/TX supported from onboard EC (Embedded Controller)
USB	- 8x USB 2.0 - 4x USB 3.1 Gen 2
Keyboard & Mouse	KBC controller is integrated in embedded controller
GPIO	4x GPIO

DISPLAY

Graphic Controller	Intel® UHD Graphics 630
Display Interface	- 3x DDI (DP/HDMI) - 1x eDP (LVDS)

Mechanical & Environment

Dimension	125mm(L) x 95mm(W) x 2.0mm(H)
Power Supply	DC 6V~16.8V
Environment	- Operation temperature: 0~60°C - Storage temperature: 0~60°C - Relative humidity : 5~95%, non-condensing

