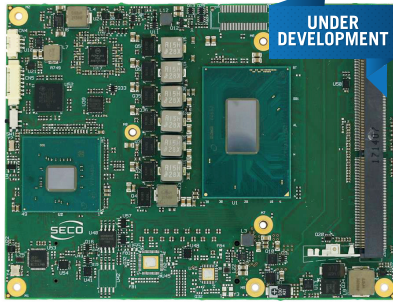




COMe-C08-BT6

COM Express™ 3.0 Basic Type 6 Module with the Intel® 8th generation Core™ / Xeon® (formerly Coffee Lake H) CPUs

Exceptional platform performance with up to six cores for more processing power

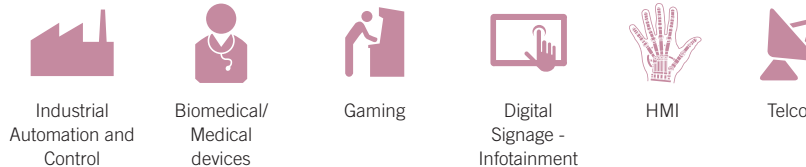


HIGHLIGHTS

- Up to six cores at up to 4.7 GHz with Intel® Hyper-Threading Technology (12 virtual cores)
- Intel® 8th Generation Core™ i7 / i5 / Xeon® Processors (formerly Coffee Lake H)
- DDR4 with ECC technology, up to 2666 MHz
- H.265 / HEVC HW Transcoder
- Up to 3 independent displays supported
- Resolution up to 4096x2304 @60Hz, 24bpp
- 4 x USB 3.1 Gen 2 Host ports



MAIN FIELDS OF APPLICATION



FEATURES

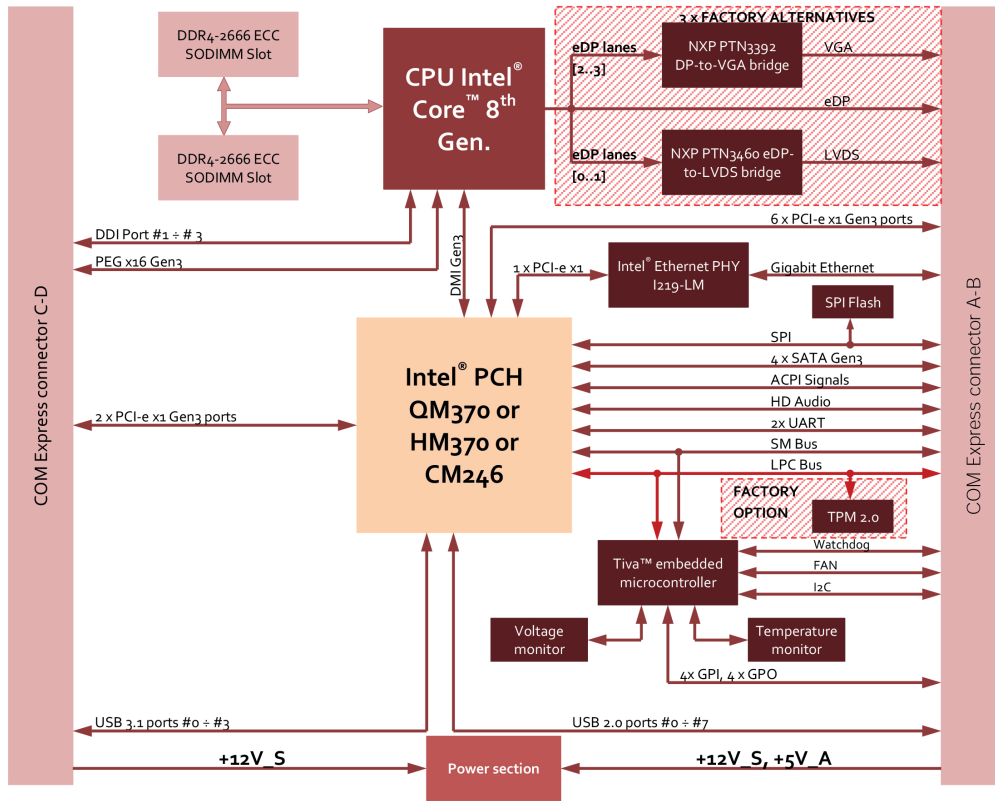
Processor	Intel® Core™ i7-8850H , Six Core @ 2.6GHz (4.3GHz Max 1 Core Turbo), 9MB Cache, 45W TDP (35W cTDP) Intel® Core™ i5-8400H , Quad Core @ 2.5GHz (4.2GHz Max 1 Core Turbo), 8MB Cache, 45W TDP (35W cTDP) Intel® Xeon® E-2176M , Six Core @ 2.7GHz (4.4GHz Max 1 Core Turbo), 9MB Cache, 45W TDP (35W cTDP)	Networking	Gigabit Ethernet interface Intel® I219-LM GbE Controller
Max Cores	6	USB	4 x USB 3.1 Gen2 Host ports 8 x USB 2.0 Host ports
Max Thread	12	PCI-e	8 x PCI-e x 1 Gen3 lanes PCI-express Graphics (PEG) Gen3 x16
Platform Controller Hub (PCH)	Intel® QM370, HM370 or CM246 PCH	Audio	HD Audio interface
Memory	Two DDR4 SO-DIMM Slots supporting DDR4-2666 ECC Memory, up to 32GB	Serial Ports	2 x UARTs
Graphics	Intel® Gen9 LP graphic core architecture, up to 48 Execution Units Up to 3 independent displays supported DirectX 12, OpenGL 4.5, and OpenCL 2.1 support HW accelerated video decode MPEG2, VC1/MMV9, AVC/H.264, VP8, JPEG/MJPEG, HEVC/H.265 (8-/10-bit), VP9 HW accelerated video encode MPEG2, AVC/H.264, VP8, JPEG HEVC/H.265, VP9	Other Interfaces	SPI, I2C, SM Bus, Thermal Management, FAN management LPC bus Optional TPM 2.0 on-board LID#/SLEEP#/PWRBTN#, Watchdog 4 x GPI, 4 x GPO
Video Interfaces	Up to 3 x Digital Display Interfaces (DDIs), supporting DP 1.2, DVI, HDMI 1.4 eDP or Single/Dual-Channel 18-/24-bit LVDS interface or LVDS + VGA interface	Power Supply	+12V _{DC} ± 10% and +5V _{SB} (optional)
Video Resolution	eDP, DP up to 4096x2304 @ 60Hz, 24bpp HDMI up to 4096x2160 @ 24Hz, 24bpp (HDMI 1.4) LVDS, VGA up to 1920x1200 @ 60Hz	Operating System	Microsoft® Windows 10 64-bit Linux 64-bit
Mass Storage	4 x S-ATA Gen3 Channels	Operating Temperature*	0°C ÷ +60°C (Commercial version)
		Dimensions	125 x 95 mm (COM Express™ Basic Form factor, Type 6 pinout)

*Measured at any point of the heatspreader/heatsink during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.

COMe-C08-BT6

COM Express™ 3.0 Basic Type 6 Module with the Intel® 8th generation Core™ / Xeon® (formerly Coffee Lake H) CPUs

BLOCK DIAGRAM



Information subject to change. Please visit www.seco.com to find the latest version of this datasheet.

086.18