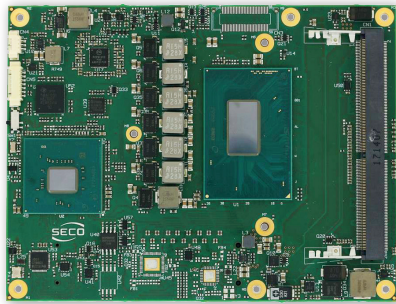




COMe-C08-BT6

COM Express™ 3.0 Basic Type 6 Module with Intel® 8th generation Core™ / Xeon® (formerly Coffee Lake) and 9th generation Core™ / Xeon® / Pentium® / Celeron® (formerly Coffee Lake Refresh) CPUs

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



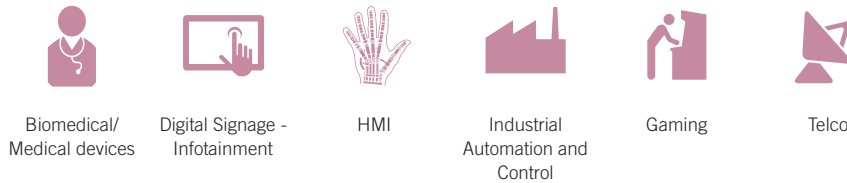
HIGHLIGHTS

CPU 8th Gen Core™/Xeon® (Coffee Lake) & 9th Gen Core™/Xeon®/Pentium®/Celeron® CPUs (Coffee Lake Refresh)	CONNECTIVITY 4x USB 3.0; 8x USB 2.0; 8x PCI-e x1 Gen3; PEG x16 Gen3
GRAPHICS Intel® UHD Graphics 630/P630 architecture, up to 48 Execution Units	MEMORY Two DDR4 SO-DIMM Slots supporting DDR4-2666 ECC Memory, up to 64GB



DEVELOPMENT | SAMPLING | PRODUCTION

MAIN FIELDS OF APPLICATION



FEATURES

Processor	Intel® 8th generation Core™ / Xeon® (formerly Coffee Lake H) CPUs: <ul style="list-style-type: none"> Intel® Core™ i7-8850H, Six Core @ 2.6GHz (4.3GHz Max 1 Core Turbo), 9MB Cache, 45W TDP (35W cTDP), with HyperThreading Intel® Core™ i5-8400H, Quad Core @ 2.5GHz (4.2GHz Max 1 Core Turbo), 8MB Cache, 45W TDP (35W cTDP), with HyperThreading Intel® Core™ i3-8100H, Quad Core @ 3.0GHz, 6MB Cache, 45W TDP (35W cTDP) Intel® Xeon® E-2176M, Six Core @ 2.7GHz (4.4GHz Max 1 Core Turbo), 12MB Cache, 45W TDP (35W cTDP), with HyperThreading Intel® 9th generation Core™ / Xeon® / Pentium® / Celeron® (formerly Coffee Lake Refresh) CPUs: <ul style="list-style-type: none"> Intel® Xeon® E-2276ME Six Core @2.8GHz (4.5GHz Max 1 Core Turbo), 12MB Cache, 45W TDP (35W cTDP), with Hyperthreading Intel® Xeon® E-2276ML Six Core @2.0GHz (4.2GHz Max 1 Core Turbo), 12MB Cache, 25W TDP, with Hyperthreading Intel® Xeon® E-2254ME Quad Core @2.6GHz (3.8GHz Max 1 Core Turbo), 8MB Cache, 45W TDP (35W cTDP), with Hyperthreading Intel® Xeon® E-2254ML Quad Core @1.7GHz (3.5GHz Max 1 Core Turbo), 8MB Cache, 25W TDP, with Hyperthreading Intel® Core™ i7-9850HE, Six Core @2.7GHz (4.4GHz Max 1 Core Turbo), 9MB Cache, 45W TDP (35W cTDP), with Hyperthreading Intel® Core™ i7-9850HL, Six Core @1.9GHz (4.1GHz Max 1 Core Turbo), 9MB Cache, 25W TDP, with Hyperthreading Intel® Core™ i3-9100HL, Quad Core @1.6GHz (2.9GHz Max 1 Core Turbo), 6MB Cache, 25W TDP Intel® Pentium® G5600E, Dual Core @2.6GHz (3.1GHz Max 1 Core Turbo), 4MB Cache, 35W TDP Intel® Celeron® G4930E, Dual Core @2.4GHz, 2MB Cache, 35W TDP Intel® Celeron® G4932E, Dual Core @1.9GHz, 2MB Cache, 25W TDP 	Max Cores 6
	Max Thread 12	
	Chipset Intel® QM370, HM370 or CM246 PCH	
	Memory Two DDR4 SO-DIMM Slots supporting DDR4-2666 Memory, up to 64GB ECC DDR4 memory modules supported only with Xeon®, Core™ i3, Pentium® and Celeron® CPUs combined with CM246 PCH	
	Graphics Intel® UHD Graphics 630/P630 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/WMV9, 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	
	Video Interfaces Up to 3 x Digital Display Interfaces (DDIs), supporting DP 1.2, DVI, HDMI 1.4 eDP 1.4 or Single/Dual-Channel 18-/24-bit LVDS interface or LVDS + VGA interface	
	Video Resolution eDP, DP up to 4096x2304 @ 60Hz, 24bpp HDMI up to 4096x2160 @ 24Hz, 24bpp (HDMI 1.4) LVDS, VGA up to 1920x1200 @ 60Hz	
	Mass Storage 4 x S-ATA Gen3 Channels SD interface (shared with GPI/Os)	
	Networking Gigabit Ethernet interface Intel® I219-LM GbE Controller	
	USB 4 x USB 3.0 Host ports 8 x USB 2.0 Host ports	
PCI-e 8 x PCI-e x1 Gen3 lanes PCI-express Graphics (PEG) Gen3 x16		
Audio HD Audio interface		



COMe-C08-BT6

COM Express™ 3.0 Basic Type 6 Module with Intel® 8th generation Core™ / Xeon® (formerly Coffee Lake H) and 9th generation Core™ / Xeon® / Pentium® / Celeron® (formerly Coffee Lake Refresh) CPUs

FEATURES

Serial Ports	2 x UARTs	Dimensions	125 x 95 mm (COM Express™ Basic Form factor, Type 6 pinout)
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 (pins shared with SD interface)	*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.	
Power Supply	+12V _{DC} ± 10% and +5V _{SB} (optional)		
Operating System	Microsoft® Windows 10 Linux		
Operating Temperature*	0°C ÷ +60°C (Commercial version)		

BLOCK DIAGRAM

