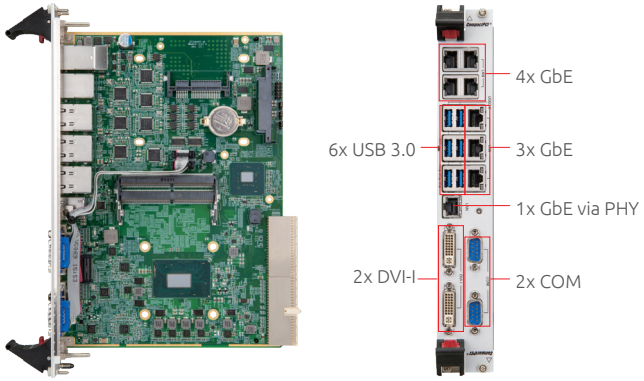
6U CompactPCI 9th/8th Gen Intel® Core™ i Processor Blade

cPCI-6640 Series

Datasheet

Preliminary



Features

- Quad-core Intel® Core™ i7/i5/i3 processor (formerly Coffee Lake)
- Up to 64GB DDR4-2666 memory via two SO-DIMMs
- 3.3V/5V power input support (5V only as BOM option)
- 2x independent displays DVI-I
- 7x Gigabit Ethernet port via I210-IT and 1x GbE via I219LM PHY
- 6x USB 3.0 ports and 2 RS-232 ports
- 1x 2.5" HDD/SSD socket and 1x CFast socket as storage support

Specifications

Processor & System	CPU	Intel® Core™ i7-9850HL 1.9/4.1GHz, 6C/12T, 9M Cache, 25W Intel® Core™ i5-8400H 2.5/4.2GHz, 4C/8T, 8M Cache, 45W Intel® Core™ i3-9100HL 1.6/2.9GHz, 4C/4T, 6M Cache, 25W
	Chipset	Intel® CM246 PCH for 8th/9th Gen CPU
	RAM	Dual channel DDR4-2666 via 2 SO-DIMMs up to 64GB
	BIOS	AMI UEFI BIOS, 64Mbit SPI serial lash memory
	CompactPCI Bus	PCI 64-bit/66MHz to J1, universal V (I/O) Supports Host mode
	PICMG Standards	PICMG 2.0 CompactPCI Rev. 3.0
Connectivity	Ethernet	Seven Gigabit Ethernet ports via I210-IT (POE function is BOM option by request) One GbE via I219LM PHY
	Graphics	Integrated in Intel processor Intel® UHD Graphics 630 Supports DirectX 12 and OpenGL 4.5 Two DVI-I ports on faceplate

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Specifications

Connectivity	USB	6x USB 3.0 on faceplate
	Serial Port	2x RS-232 on faceplate
Storage	Processor Blade	1x SATA 7-pin header 1x CFast socket (optional CompactFlash supported by USB-to-IDE)
Operating System	OS	Windows 10 (64-bit)
Miscellaneous	LEDs	Power, WDT and Hard Disk
	Battery	Coin cell lithium battery onboard for RTC CMOS RAM
	Watchdog Timer	System Reset and NMI, with programmable interval, 1-65535 seconds or minutes
	Hardware Monitor	Monitors CPU temperature, system temperature, Vcore and DC voltage
Mechanical & Environmental	Form Factor	6U 8HP CompactPCI 233.33mm x 160mm (LxW) Equipped with J1, J2 HM connectors
	Operating Temperature	0°C to 60°C
	Extended Temperature	-40°C to 85°C
	Storage Temperature	-40°C to 85°C
	Relative Humidity	95% non-condensing
	Shock	20G peak-to-peak, 11ms duration, non-operating
	Vibration	2Grms random vibration, 5-500Hz, each axis, operating
	Power Consumption	Intel® Core™ i7-9850HE with BIOS EIST Enable in Win10: 11.79A@5V, 58.45W max
		Intel® Core™ i3-9100HL with BIOS EIST Enable in Win10: 8.55A@5V, 42.75W max
	Weight	Net weight TBC with heatsink
Safety & EMI	Certifications	CE/FCC

Ordering Information

Processor Blades	
cPCI-6640D/9100HL/M4G	6U 8HP cPCI-6640 blade with Intel® Core™ i3-9100HL processor, 4GB DDR4-2666 in SODIMM and 8x GbE, 2x COM, 2x DVI-I, 6x USB, 1x 2.5" SATA, J1, J2
cPCI-6640D/8400H/M4G	6U 8HP cPCI-6640 blade with Intel® Core™ i5-8400H processor, 4GB DDR4-2666 in SODIMM and 8x GbE, 2x COM, 2x DVI-I, 6x USB, 1x 2.5" SATA, J1, J2
cPCI-6640D/9850HE/M4G	6U 8HP cPCI-6640 with Intel® Core™ i7-9850HE processor, 4GB DDR4-2666 in SODIMM and 8x GbE, 2x COM, 6x USB, 2x DVI-I, support PoE (Please contact account manager for this demand.)

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