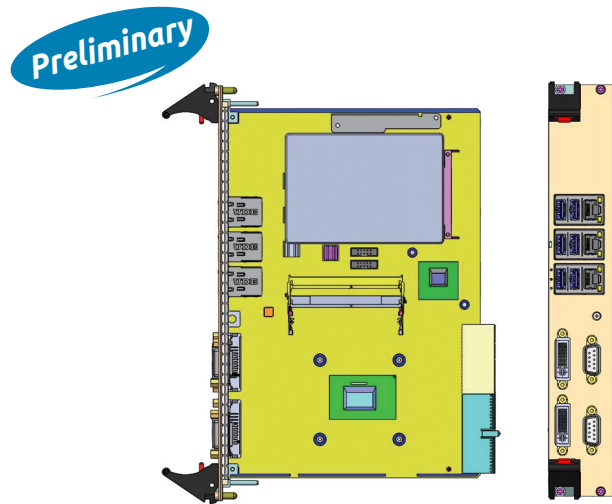


6U CompactPCI Intel® Xeon® and 9th/8th Gen Core™ i7/i5/i3 Processor Blade

Datasheet

cPCI-6640 Series



Features

- Quad-core Intel® Xeon®/Core™ i7/i5/i3 processor (formerly Coffee Lake)
- Up to 32GB DDR4-2133/2600 memory via two SO-DIMMs
- Support 6 USB 3.0 port
- Support 1 independent display
- Support 3 independent GbE ports
- Support 2 RS-232/422/485

Specifications

Processor & System	CPU	Intel® Core™ Xeon E-2276ML 2.8/4.7GHz, 6C/12T, 12M Cache, 45W 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 32GB
	BIOS	AMI UEFI BIOS, 64Mbit SPI serial flash memory
	CompactPCI Bus	PCI 64-bit/66MHz to J1, universal V (I/O) Supports Host/Satellite mode PICMG standards PICMG 2.0 CompactPCI Rev. 3.0
Connectivity	PMC	One 32-bit/33MHz PMC site by adapter board (cPCI-6630D)
	Ethernet	Three GbE ports on faceplate by Intel® I219 and I210
	Graphics	Integrated in Intel processor Intel® HD Graphics 530/510 Supports DirectX 12 and OpenGL 4.4 DVI-I and DVI-D on front

Specifications

Connectivity	USB	6x USB 3.0 on faceplate
	Serial Port	2x RS-232/422/485 on faceplate
Storage	Processor Blade	1x SATA 6Gb/s direct connector for 2.5" onboard drive 1x SATA 7-pin header 1x CFast socket (optional CompactFlash supported by USB-to-IDE)
	RTM	Available interfaces dependent on RTM model selected
Operating System	OS	Windows 10 (64-bit)
Miscellaneous	LEDs	8x indication LEDs for port 80h on faceplate 1x WDT on faceplate and signal to rear 1x Power on faceplate and signal to rear 1x HDD on faceplate and signal to rear 1x Hot Swap on faceplate and signal to rear
	Battery	Coin cell lithium battery onboard for RTC CMOS RAM
	Watchdog Timer	System Reset and NMI, with programmable interval, 1-65535 seconds or minutes
Mechanical & Environmental	Hardware Monitor	Monitors CPU temperature, system temperature, Vcore and DC voltage Supported by optional onboard SEMA 3.0 BMC
	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	-20°C to 70°C (SKU dependent, by screening)
	Storage Temperature	-50°C to 100°C
	Relative Humidity	95% non-condensing
	Shock	15G peak-to-peak, 11ms duration, non-operating
	Vibration	2Grms random vibration, 5-500Hz, each axis, operating
Power Consumption		Intel® Core™ i7-6820EQ with BIOS EIST Enabled / CTDP Normal in Win 7: 14.58A@5V, 72.9W max.
		Intel® Celeron® G3900E with BIOS EIST Enabled / CTDP Normal in Win 7: 5.83A@5V, 29.15W max.
Weight		Net weight 642g with heatsink for cPCI-6630D
Safety & EMI	Certifications	CE/FCC

Ordering Information

Processor Blades

cPCI-6640/i3-9100HL/M4G W/ 3x GbE	6U 8HP cPCI-6640 blade with Intel® Core™ i3-9100HL processor, 4GB DDR4-2666 in SODIMM and 3x GbE, 2x COM, 1x DVI-I, 6x USB, 1x 2.5" SATA, J1, J2
cPCI-6640/i5-8400H/M4G W/ 3x GbE	6U 8HP cPCI-6640 blade with Intel® Core™ i5-8400H processor, 4GB DDR4-2666 in SODIMM and 3x GbE, 2x COM, 1x DVI-I, 6x USB, 1x 2.5" SATA, J1, J2

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