



PART NUMBER: 6U-CPU-CORE

- Supports 6th Generation Intel® Core™ i3/i5/i7 processors and Intel® CM236 PCH with embedded graphics
- Up to 32GB (DDR4-2133) memory
- Optimized dual-slot SBC with 2.5" SATA-III HDD/SSD, 2240 or 2280 M.2 socket
- Two SATA ports, two USB 3.0, six USB 2.0 ports, two DP ports, two COM ports, one PS/2, one Audio, one VGA and PCIe x8 interfaces to RTM
- PICMG 2.16 R1.0, PICMG 2.1 R2.0, PICMG 2.0 R3.0, PICMG2.9 R1.0 compliant

SPECIFICATION

Processor System	CPU	6th Generation Intel® Core™ i3/i5/i7 mobile processors up to 2.8 GHz (8MB LLC)
	Platform Controller Hub	Intel® C230 Series Chipsets
	BIOS	Redundant AMI 16MByte SPI flash
CompactPCI Interface	J1 Connector	32-bit PCI local bus
	J2 Connector	64-bit PCI local bus
	J3 Connector	PICMG2.16 + RTM area, 1x PCIe x8
	J4-5 Connectors	RTM area
XMC Socket	PCIe8	Gen3 (7GT/s)
Memory	Technology	DDR4 2133 MHz, dual channel and ECC support (optional)
	Max. Capacity	Up to 32GB (max. 16GB on-board, max. 16GB SODIMM)
	Socket	SODIMM x1
Graphics	Controller	Intel® embedded graphic controller Iris (triple independent display)
	VRAM	Dynamic
	Resolution	4096 x 2304 @ 60Hz
Ethernet	Controller	5 Intel® I210AT single-port Gigabit Ethernet controllers (on PCIe x1 channel)
	Interface	10/100/1000Base-TX Ethernet
	I/O Connector	RJ-45 x 2 (front panel), four interfaces to rear J3 & J5, one interface can be switched between front and rear (J5) connectivity
Storage	Onboard Mode	SATA-III
	Channels	On board 2.5" HDD/SSD, 1st site default, 2nd site for optional
		On board M.2, form factor: 2242 or 2280
		On board Nand flash (Optional)
	To Rear Mode	SATA
Channels	2 ports to J3	
Front I/O	USB3.0	3 type A, compatible with USB2.0
	VGA	1
	Console	RJ-45
	LAN	2 x 1GbE on RJ-45
	Front Panel LEDs	x1 blue for Hot Swap, 1x yellow for HDD, x1 green for Master/Drone mode, x1 green BMC Heartbeat, and x1 green for Power
	Buttons	CPU reset button and BMC reset button

Rear Interface (via J3-J5)	USB 2.0	6	
	USB 3.0	2	
	COM	2	
	LAN	4 interfaces and 1 connectivity with front port	
	SATA	2	
	PCIe	1 PCIe x8	
	Display	2 DDI for DP	
	Others	1 PS/2 for keyboard & mouse, Audio	
Watchdog Timer	Output	Local Reset and Interrupt	
	Interval	Programmable 1s - 255s	
Hardware Monitor	HWM	NCT7904	
BMC	Controller	LPC1768, IPMI v2.0 compliant	
Operating System	Compatibility	Win7 64bit, Win10 64bit, Linux, VxWorks (on request)	
Power Requirement	Configuration	4HP	
	TDP	Maximum: up to 75W depending on CPU type, +5V: 12A, +3.3V: 5.5A	
Physical	Dimensions (W x D)	233.35 x 160.0 mm	
Environment		Operating	Non-Operating
	Temperature	0 ~ 55 °C (32 ~ 131 °F)	-40 ~ 85 °C (-40 ~ 185 °F)
	Humidity	95 % @ 40 °C, non-condensing	95 % @ 60 °C, non-condensing
	Vibration (5-500 Hz)	2Grms (With on board 2.5" SSD)	Sine, 4.4mm@5-15Hz, 2G@15-500Hz
	Altitude	15000ft, 55 °C above sea level	40000 ft, -40 °C above sea level
Regulatory	Conformance	FCC Class A, CE, RoHS	
Compliance	Standards	PICMG2.0 R3.0, PICMG2.1 R1.0, PICMG2.9 R1.0, PICMG2.16 R1.0	

The Power to Outperform

Would you like to find out more? Be sure to speak to our on-stand team or contact us via the details here and we would be happy to help.

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