



# iCR-4100



Rack computer for industrial environment



- ✓ Solid painted steel structure for industrial environments
- ✓ Ready for installation on Rack 19"
- ✓ 9<sup>th</sup> & 8<sup>th</sup> Gen. Intel® Core™ processor
- ✓ Up to 128GB DDR4 UDIMM
- ✓ Intel® HD graphics with up to 3 simultaneous displays
- ✓ High availability of I/O: RS232/422/485, Gb LAN, USB 3.1 / 2.0
- ✓ Front access door protected by a key lock
- ✓ Active ventilation with removable dust filter
- ✓ Available with removable HDD/SSD box
- ✓ RAID 0, 1, 5, 10
- ✓ Optional redundant power supply

 RACKMOUNT	 NON 24/7 STOP	 +5~+45°C	 Coffee Lake CPU 8/9 <sup>th</sup> Gen Intel® Core™	 DDR4 ECC UP TO 128GB	 USB 3.1 Gen.2	 COM RS232/422/485	 LAN 2 x Gb LAN	 Management LAN iAMT 12.0
 19" ↔ 4U ↑↓	 PCI EXPRESS	 Integrated SATA RAID CTRL RAID 0,1,5,10	 Three display support	 WATCHDOG 10-255s 10-255min	 DVD ReWritable	 REDUNDANT PSU	 RoHS	 CE



## Technical Features

<b>System</b>	<b>Processor</b>	Socket LGA 1151 Intel® Core™ 8 <sup>th</sup> / 9 <sup>th</sup> Generation Intel® Core™ i7 / i5 / i3 / Pentium (Formerly Coffee Lake)	
	<b>Chipset</b>	Intel Q370	
	<b>Bios</b>	AMI 128Mb Flash ROM	
	<b>Expansion slot</b>	2 x PCIe x16 (1x16 & 1x8 signal) 1 x PCIe x1 1 x PCIe x4 2 x PCI	
<b>Memory</b>	<b>Max expansion</b>	Up to *128GB *Core i3, Pentium can only support DDR4-2400 up to 64GB	
	<b>Type</b>	DDR4 2666MHz 288-pin UDIMM	
	<b>Slot</b>	4	
<b>Back I/O Interfaces</b>	<b>Serial</b>	1 x RS232/422/485 1 x RS232/422/485 (optional) 8 x RS232 (optional)	
	<b>LPT</b>	N/A	
	<b>USB</b>	4 x USB 3.1 (Gen.2) 2 x USB 3.1 (Gen.1) 4 x USB 2.0 (optional)	
	<b>Keyboard / Mouse</b>	N/A	
	<b>Audio</b>	3 x Jack 3.5mm (Line-in, Line-out, Mic-in)	
	<b>LAN</b>	2 x GbE RJ45	
	<b>Video</b>	1 x VGA 1 x DVI-D 1 x HDMI 1 x DP	
	<b>Note</b>	Check the installed basic model and the available options on the web configurator	
	<b>Front I/O Interfaces</b>	<b>USB</b>	2 x USB 3.0
		<b>ON/OFF / RESET</b>	2 x Switch
		<b>STATUS LED</b>	1 x Power Led 1 x Hdd Led
	<b>Storage</b>	<b>Integrated storage controller</b>	5 x SATA 3.0 6Gb/s (supports RAID 0/1/5/10) 1 x M.2 PCIe 3.0 x4 1 x SATA M key 2242 /2260 /2280/22110
		<b>Internal bay</b>	4 x 3.5"/*2.5" for HDD/SSD" *need optional adapter frame
<b>External bay</b>		3 x 5.25" compatible with optional HDD/SSD removable box 1 x 3.5"	
<b>Graphics Subsystem</b>	<b>Integrated Video interfaces</b>	Intel® HD Graphics (depends on installed CPU)	
	<b>Max resolution</b>	VGA: 32-bit resolution up to 1920x1200 @ 60Hz DVI-D: resolution up to 1920x1200 @ 60Hz HDMI 1.4: resolution up to 4K 4096x2160 @ 30Hz DP: resolution up to 4K 4096x2304 @ 60Hz	
	<b>Contemporary active displays</b>	Max 3 contemporary active displays (the operating system used must support this function)	
<b>Audio Subsystem</b>	<b>Integrated audio</b>	Realtek ALC662 HD audio	
	<b>Network Subsystem Management</b>	<b>Integrated network controller</b> 1 x Intel® i211AT (10/100/1000Mbps) 1 x Intel® i219-LM (10/100/1000Mbps) supporting iAMT12.0	
<b>Security Power</b>	<b>Watchdog System</b>	System Reset Software programmable from 10 to 255 min/sec Continuous monitoring of voltages, temperatures, fan speed	
	<b>Trusted Platform Module</b>	Onboard TPM v1.2 or v2.0 (optional / available upon request)	
<b>Software</b>	<b>Standard PSU</b>	400W ATX ACTIVE PFC, 80Plus Bronze (85+) AC INPUT: 100-240V,5.5-2.5A,50-60Hz	
	<b>Optional PSU</b>	Redundant power supply (optional)	
	<b>Consumption</b>	120W @ 75% Stress* *Average absorption estimated in configuration equipped with CPU i7-8700K	
<b>Mechanical Features</b>	<b>Supported operating system</b>	Windows 10 64bit Windows 10 64bit IoT Enterprise	
	<b>L x H x D</b>	483 x 178 (4U) x 505 mm	
<b>Environment</b>	<b>Weight</b>	20Kg for medium configuration	
	<b>External bay</b>	3x 5,25" 1x 3,5"	
	<b>Internal bay</b>	4 x 3.5"	
	<b>Color</b>	Black	
	<b>Operating temp.</b>	From +5°C to +45°C	
	<b>Non operating temp.</b>	From -30°C to +70°C	
	<b>RH</b>	95% a 30°C non cond.	
	<b>IP Grade</b>	IP20	
	<b>Cooling System</b>	2 x 90X90x25 mm front with dust filter 1 x 80x80x25 mm (optional) 2 x 60x60x25 mm (optional)	
	<b>Reference Marks</b>	CE, RoHS	
<b>Product Certifications</b>	<b>Directive</b>	Built according to European Directive 2014/30/EU (EMCD), 2014/35/EU (LVD), 2011/65/EU & 2015/863/EU (RoHS III)	
	<b>Reference standards</b>	UNI EN ISO 9001	
<b>Company Certifications</b>	<b>Reference standards</b>	UNI EN ISO 9001	
<b>Product code</b>	<b>CNC9AHNMINO</b>	iCR4100 Intel Q370, DDR4, 2*GbLAN, SATA3 RAID, 6*USB3.0, 1*COM	

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