














# iCR-4100 Q170

Rack computer for industrial environment



- ✓ Solid painted steel structure for industrial environments
- ✓ 19" 4U rack mounting
- ✓ Front access door protected by a key lock
- ✓ Active ventilation with removable dust filter
- ✓ Single or redundant power supply
- ✓ Available with removable HDD/SSD box
- ✓ High availability of I/O: RS232/422/485, Gb LAN, USB 2.0/3.0...
- ✓ High local processing capacity thanks to 7<sup>th</sup> Intel® Core

	<b>NON STOP</b> 24/7	<b>RACKMOUNT</b> 19" ↔ 4U ↑↓	<b>Skylake CPU</b>  6th Gen Intel® Core™	<b>DDR4</b>  UP TO 64 GB	<b>Integrated SATA RAID CTRL</b>  RAID 0,1,5,10	<b>LAN</b>  2 x Gb LAN	<b>Management</b>  iAMT 11.0
<b>REDUNDANT PSU</b> 	<b>COM</b> RS232/422/ 485	<b>PCI EXPRESS</b> 3.0 	<b>Three display support</b> 	<b>WATCHDOG</b>  1-255s	<b>+5~+45°C</b> 	<b>RoHS</b> 	<b>CE</b> 

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<b>System</b>	<b>Processor</b>	7 <sup>th</sup> & 6 <sup>th</sup> Generation Intel® Core™ - Socket LGA1151	
	<b>Chipset</b>	Intel® Q170 Express chipset	
	<b>Expansion slot</b>	2 x Slot PCIe x16 Gen 3.0 - Config. : 1 x PCIe x16 or 2 x PCIe x8 2 x Slot PCIe x4 Gen 3.0 3 x Slot PCI 32bit 5V	
<b>Memory</b>	<b>Max</b>	Up to 64GB	
	<b>Supported type</b>	Unbuffered DDR4 DIMM 1866/2133MHz	
<b>Back I/O Interfaces</b>	<b>Slot</b>	4	
	<b>Serial</b>	1 x RS232/422/485 (RS232 and/or Power)	
		1 x RS232/422/485 (RS232 and/or Power) optional	
		4 x RS232 opzionali	
	<b>USB</b>	4 x USB 3.0/2.0 /1.1	
		2 x USB 2.0/1.1	
		6 x USB 2.0/1.1 optional	
	<b>DIO</b>	1 x 8bit Digital I/O	
	<b>Keyboard/Mouse</b>	1 x PS/2	
	<b>Audio</b>	2 x Jack 3.5mm	
	<b>LAN</b>	2 x RJ45	
	<b>Video</b>	1 x VGA	
		1 x HDMI	
		1 x DVI-D	
<b>Front I/O Interfaces</b>	<b>USB</b>	2 x USB 3.0	
	<b>Storage</b>		
<b>Storage</b>	<b>Integrated storage controller</b>	6 x SATA 3.0 6Gb/s Support RAID 0/1/5/10	
	<b>Internal bay</b>	4 x 3.5"/*2.5" per 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</b>	<b>Integrated graphics*</b>	Intel® HD Graphics* *depends on installed CPU	
	<b>Main features</b>	OpenGL 5.0, DirectX 12, OpenCL 2.1 HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9 HW Encode: MPEG2, AVC/H264, JPEG, HEVC/H265, VP8, VP9	
		<b>Resolution</b>	VGA : max 1920x1200 @ 60Hz DVI-D : max 1920x1200 @ 60Hz HDMI : max 4096x2160 @ 24Hz
		<b>Multidisplay</b>	Support up to 3 contemporary display
	<b>Audio</b>	<b>Integrated audio</b>	High Definition Audio (Realtek ALC888S-VD2-GR)

<b>Network</b>	<b>Integrated network card</b>	1 x Intel® Gigabit I210AT PCIe 1 x Intel® Gigabit I219LM PCIe *with supp. iAMT11.0 *only with CPU Core i7/i5
	<b>Management</b>	
<b>Management</b>	<b>Watchdog</b>	Software programmable Watchdog from 1 to 255s
	<b>Intel® AMT</b>	Intel Active Management iAMT11.0* *only with CPU Core i7/i5
<b>Power</b>	<b>Electrical absorption</b>	80W @ 75% Stress* *Average absorption estimated in configuration equipped with CPU i7-6700 and 4 x 1GB DDR3
	<b>Standard power supply</b>	400W ATX ACTIVE PFC, 80Plus Bronze (85+) AC INPUT: 100-240V,5.5-2.5A,50-60Hz
	<b>Optional</b>	Solutions with redundant power supply are also available.
<b>Software</b>	<b>Supported operating system</b>	Windows 7 (& WES7) 64-bit (only with 6th gen cpu) Windows 10 (& IoT Enterprise) 64-bit
	<b>Mechanical features</b>	
<b>Mechanical features</b>	<b>L x H x D*</b>	483 x 178 (4U) x 505* mm.
	<b>Color</b>	Black
	<b>Weight (Kg)</b>	20Kg for medium configuration
<b>Environment</b>	<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>Product certification</b>	<b>Reference Marks</b>	CE, RoHS
	<b>Directive</b>	Built in compliance with the European directive 2014/30/EU(EMCD), 2014/35/EU(LVD) and RoHS III
<b>Company certification</b>	<b>Reference standards</b>	UNI EN ISO 9001
<b>Product code</b>	<b>CNC996MX100</b>	iCR4100 Intel Q170, DDR4, 2*Gb LAN, SATA 3 RAID, USB 2.0/3.0
	<b>Doc. Ref.</b>	ZST-4292-00000101-00



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