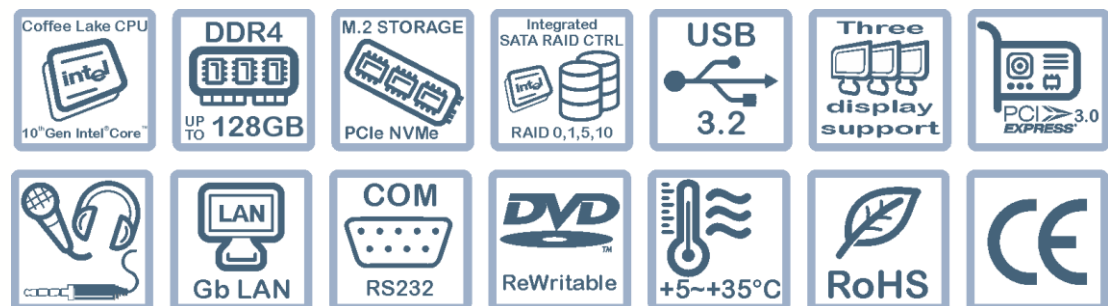


# Challenger-R2 H470

Action Graphics



- ✓ Ideal in all home & office contexts.
- ✓ 10<sup>th</sup> generation Intel® Core™ processor
- ✓ Intel® HD graphics with up to 3 simultaneous displays
- ✓ Support for dedicated PCI Express 3.0 x16 video cards
- ✓ Ultra-Fast M.2 with PCIe x2 & SATA interface
- ✓ Built-in Intel® RAID 6-channel SATA Controller, up to 6Gb/s
- ✓ Intel® Optane™ Memory Ready
- ✓ Built-in High Definition Audio 2/4/5.1/7.1-channel



# Challenger-R2 H470

Action Graphics



<b>System</b>	<b>Processor</b>	Socket LGA 1200 Intel® Core™ 10 <sup>th</sup> gen. Intel® Core™ i9 / i7 / i5 / i3 / Pentium		
	<b>Chipset</b>	Intel® H470 Express Chipset		
	<b>BIOS</b>	1 x 256 Mb AMI UEFI BIOS PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0		
	<b>Expansion slots</b>	1 x PCI Express 3.0 x16 (mechanical x16) 1 x PCI Express 3.0 x4 (mechanical x16) 2 x PCI Express 3.0 x1 Supports up to ASPM L1.2 power management protocols.		
<b>Memory</b>	<b>Max exp.</b>	128GB		
	<b>Type</b>	DDR4- 2933/2666/2400/2133 UDIMM 288pin 4GB, 8GB, 16GB, 32GB		
	<b>Slots</b>	4		
<b>Front I/O Interfaces</b>	<b>Audio</b>	2 x Jack 3.5mm headphone / microphone		
	<b>USB</b>	2 x USB 3.2 Type A 2 x USB 2.0 Type A		
<b>Back I/O interfaces</b>	<b>Serial</b>	1 x RS232 (optional)		
	<b>LPT</b>	1 x LPT DB25 (optional)		
	<b>USB</b>		2 x USB 2.0 Type A 1 x USB 3.2 gen.1 Type C 3 x USB 3.2 gen.1 Type A	
		<b>Keyboard/Mouse</b>	1 x PS/2	
		<b>Audio</b>	3 x Jack 3.5mm (Line In, Line Out, Mic In)	
	<b>LAN</b>	1 x RJ45		
	<b>Video</b>		1 x VGA DB15 1 x DVI-D 1 x HDMI 1 x DP (Display Port)	
		<b>Storage</b>		6 x SATA 3 6Gb/s Support for RAID 0, RAID 1, RAID 5, and RAID 10 Intel® Optane™ Memory Ready 1 x M.2 (Socket 3, M key, 2242/2260/2280/22110 PCIe x2 SSD) 1 x M.2 (Socket 3, M key, 2242/2260/2280 SATA & PCIe4x x2 SSD) M.2 support up to ASPM L1.2 PCIe power management protocols
			<b>Card Reader</b>	Optional
			<b>Internal bay</b>	4 x 3.5" (can be 2.5" with optional adapter) 4 x 2.5"
<b>External bay</b>	2 x *5.25" unit 1 x *3.5" unit			
	<b>Note</b>	* Check the installed basic model and the available options on the web configurator		
<b>Graphics subsystem</b>	<b>Integrated video interfaces</b>	Intel® HD Graphics (depends on the CPU model) Max shared memory: 512MB		
	<b>Max resolution</b>	VGA DB15: 1920x1200@60Hz DVI-D: 1920x1200@60Hz HDMI 1.4: 4096x2160@30Hz (HDCP 2.3 support)		
	<b>Contemporary active displays</b>	Max 3		

<b>Audio subsystem</b>	<b>Integrated audio interfaces</b>	Intel® HD Audio (codec Realtek® ALC887)
	<b>Channel</b>	2 / 4 / 5.1 / 7.1 The HDMI 1.4 port carries the audio signal
<b>Network subsystem</b>	<b>Integrated network controller</b>	1 x 10/100/1000 Intel® GbE LAN
	<b>Power</b>	<b>Standard PSU</b> 350W ATX ACTIVE PFC AC INPUT 200-240V, 2.5A, 50-60Hz
<b>Mechanical features</b>	<b>L x A x P</b>	185mm x 420mm x 450mm
	<b>Weight</b>	7.5 Kg for medium configuration
	<b>Internal bay</b>	4 x 3.5" (can be 2.5" with optional adapter) 4 x 2.5"
	<b>External bay</b>	2 x 5.25" unit 1 x 3.5" unit
<b>Software Environment</b>	<b>Colour</b>	Black
	<b>Supported O.S.</b>	Microsoft Windows 10 64bit
	<b>Operating temp.</b>	From +5°C to + 35°C
	<b>Non op. temp.</b>	From -20°C to +70°C
<b>Product certifications</b>	<b>RH</b>	95% @ 30°C non cond.
	<b>Reference marks</b>	CE, RoHS
	<b>Directives</b>	Built according to European Directive 2014/30/EU (EMCD), 2014/35/EU (LVD) and 2011/65/EU (RoHS)
<b>Company Product code</b>	<b>Reference standard</b>	UNI EN ISO 9001
	<b>CNT7AGNEIN0</b>	CHALLENGER-R2 Intel H470, Gb Lan+SATA3 Raid, USB 2.0/3.0
	<b>Doc ref.</b>	ZST-4292-00000112-00



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