

General	
Gaming Armor	<b>Memory</b> - 15μ Gold Contact in DIMM Slots <b>VGA Card</b> - 15μ Gold Contact in VGA PCIe Slot (PCIe2) - PCIe Power Connector <b>Internet</b> - Killer™ E2400 LAN <b>Cooling</b> - XXL Aluminum Alloy Heatsink <b>Audio</b> - Purity Sound™ 3
Unique Feature	<b>ASRock Super Alloy</b> - XXL Aluminum Alloy Heatsink - Nichicon 12K Platinum Caps (100% Japan made high quality conductive polymer capacitors) - I/O Armor - Matte Black PCB - High Density Glass Fabric PCB <b>ASRock Ultra M.2 (PCIe Gen3 x4 &amp; SATA3)</b> <b>ASRock Full Spike Protection</b> <b>ASRock Live Update &amp; APP Shop</b>
CPU	- Supports 6 <sup>th</sup> Generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® Processors (Socket 1151) - Digi Power design - 10 Power Phase design - Supports Intel® Turbo Boost 2.0 Technology - Supports Intel® K-Series unlocked CPUs - Supports ASRock BCLK Full-range Overclocking
Chipset	- Intel® Z170
	- Dual Channel DDR4 Memory Technology - 4 x DDR4 DIMM Slots - Supports DDR4 3866+(OC)*/3600(OC)/3200(OC)/2933(OC)/2800(OC)/2400(OC)/2133 non-ECC, un-buffered memory* - Supports ECC UDIMM memory modules (operate in non-ECC mode)

<b>Memory</b>	<ul style="list-style-type: none"> <li>- Max. capacity of system memory: 64GB*</li> <li>- Supports Intel® Extreme Memory Profile (XMP) 2.0</li> <li>- 15μ Gold Contact in DIMM Slots</li> </ul> <div> <p>*Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 32-bit OS. For Windows® 64-bit OS with 64-bit CPU, there is no such limitation. Please refer to Memory Support List on ASRock's website for more information.</p> <p>3866+(OC) memory frequency can only be achieved when a single memory module is installed (Single channel memory).</p> </div>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>- 2 x 128Mb AMI UEFI Legal BIOS with multilingual GUI support (1 x Main BIOS and 1 x Backup BIOS)</li> <li>- Supports Secure Backup UEFI Technology</li> <li>- ACPI 5.0 Compliant wake up events</li> <li>- SMBIOS 2.7 Support</li> <li>- CPU, GT_CPU, DRAM, VPPM, PCH 1.0V, VCCIO, VCCPLL, VCCSA Voltage Multi-adjustment</li> </ul>
<b>Audio, Video and Networking</b>	
<b>Graphics</b>	<ul style="list-style-type: none"> <li>- Supports Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 510/530</li> <li>- Pixel Shader 5.0, DirectX 12</li> <li>- Max. shared memory 1792MB</li> <li>- Dual graphics output: Support DVI-D and HDMI ports by independent display controllers</li> <li>- Supports HDMI with max. resolution up to 4K x 2K (4096x2160) @ 24Hz / (3840x2160) @ 30Hz</li> <li>- Supports DVI-D with max. resolution up to 1920x1200 @ 60Hz</li> <li>- Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required)</li> <li>- Supports Accelerated Media Codecs: HEVC, VP8, VP9</li> <li>- Supports HDCP with DVI-D and HDMI Ports</li> <li>- Supports Full HD 1080p Blu-ray (BD) playback with DVI-D and HDMI Ports</li> </ul> <div> <p>*Intel® HD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated.</p> <p>**Due to chipset limitation, the Blu-ray playback of Intel® HD Graphics is only supported under Windows® 8 / 8 64-bit / 7 /</p> </div>

	<p>7 64-bit.</p> <p>***Intel® InTru™ 3D is only supported under Windows® 8 / 8 64-bit / 7 / 7 64-bit.</p>
<b>Audio</b>	<ul style="list-style-type: none"> <li>- 7.1 CH HD Audio with Content Protection (Realtek ALC1150 Audio Codec)</li> <li>- Premium Blu-ray Audio support</li> <li>- Supports Surge Protection (ASRock Full Spike Protection)</li> <li>- Supports Purity Sound™ 3 <ul style="list-style-type: none"> <li>- Nichicon Fine Gold Series Audio Caps</li> <li>- 115dB SNR DAC with differential amplifier</li> <li>- TI® NE5532 Premium Headset Amplifier (Supports up to 600 ohm headsets)</li> <li>- Pure Power-In</li> <li>- Direct Drive Technology</li> <li>- PCB isolate shielding</li> </ul> </li> <li>- Supports DTS Connect</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>- PCIE x1 Gigabit LAN 10/100/1000 Mb/s</li> <li>- Killer™ E2400 Series</li> <li>- Supports Wake-On-LAN</li> <li>- Supports Lightning/ESD Protection (ASRock Full Spike Protection)</li> <li>- Supports Energy Efficient Ethernet 802.3az</li> <li>- Supports PXE</li> </ul>
<b>Expansion / Connectivity</b>	
<b>Slots</b>	<ul style="list-style-type: none"> <li>- 2 x PCI Express 3.0 x16 Slots (PCIE2: x16 mode; PCIE4: x4 mode)*</li> <li>- 3 x PCI Express 3.0 x1 Slots (Flexible PCIe)</li> <li>- Supports AMD Quad CrossFireX™ and CrossFireX™</li> <li>- 15μ Gold Contact in VGA PCIe Slot (PCIE2)</li> </ul> <p>*Supports NVMe SSD as boot disks</p>
	<ul style="list-style-type: none"> <li>- 6 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1, RAID 5, RAID 10, Intel® Rapid Storage Technology 14 and Intel® Smart Response Technology), NCQ, AHCI and Hot Plug</li> <li>- 2 x SATA Express 10 Gb/s Connectors*</li> <li>- 1 x Ultra M.2 Socket, supports type 2230/2242/2260/2280/22110 M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen3 x4 (32 Gb/s)**</li> </ul>

Storage	<p>*If M2_1 is occupied by a SATA-type M.2 device, SATA3_0 and SATA3_1 will be disabled. Support to be announced</p> <p>**Supports ASRock U.2 Kit Supports NVMe SSD as boot disks</p>
Connector	<ul style="list-style-type: none"> <li>- 1 x COM Port Header</li> <li>- 1 x TPM Header</li> <li>- 1 x Power LED and Speaker Header</li> <li>- 2 x CPU Fan Connectors (4-pin) (Smart Fan Speed Control)</li> <li>- 4 x Chassis Fan Connectors (4-pin) (Smart Fan Speed Control)*</li> <li>- 1 x 24 pin ATX Power Connector</li> <li>- 1 x 8 pin 12V Power Connector</li> <li>- 1 x PCIe Power Connector</li> <li>- 1 x Front Panel Audio Connector</li> <li>- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))</li> <li>- 1 x USB 3.0 Header (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))</li> </ul> <p>*CPU_FAN1 and CHA_FAN1 can auto detect if 3-pin or 4-pin fan is in use. The CPU Fan Connector supports the CPU fan of maximum 1A (12W) fan power.</p>
Rear Panel I/O	<ul style="list-style-type: none"> <li>- 1 x PS/2 Mouse/Keyboard Port</li> <li>- 1 x DVI-D Port</li> <li>- 1 x HDMI Port</li> <li>- 1 x Optical SPDIF Out Port</li> <li>- 1 x USB 2.0 Port (Supports ESD Protection (ASRock Full Spike Protection))</li> <li>- 1 x Fatal1ty Mouse Port (USB 2.0) (Supports ESD Protection (ASRock Full Spike Protection))</li> <li>- 5 x USB 3.0 Type-A Ports (Supports ESD Protection (ASRock Full Spike Protection))</li> <li>- 1 x USB 3.0 Type-C Port (Supports ESD Protection (ASRock Full Spike Protection))</li> <li>- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)</li> <li>- HD Audio Jacks: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone</li> </ul>
Other Features / Miscellaneous	

<b>Software and BIOS</b>	<p><b>Software</b></p> <ul style="list-style-type: none"> <li>- ASRock F-Stream</li> <li>- ASRock Disk Health Report</li> <li>- ASRock USB Key</li> <li>- ASRock Key Master</li> <li>- ASRock APP Charger</li> <li>- ASRock XFast RAM</li> <li>- ASRock Fast Boot (Fast Boot, Restart to UEFI)*</li> </ul> <p><b>UEFI</b></p> <ul style="list-style-type: none"> <li>- ASRock EZ Mode</li> <li>- ASRock Full HD UEFI</li> <li>- ASRock My Favorites in UEFI</li> <li>- ASRock Instant Flash</li> <li>- ASRock Internet Flash</li> <li>- ASRock Crashless BIOS</li> <li>- ASRock OMG (Online Management Guard)</li> <li>- ASRock UEFI System Browser</li> <li>- ASRock UEFI Tech Service</li> <li>- ASRock Easy RAID Installer</li> <li>- ASRock Easy Driver Installer</li> </ul> <div> <p>*These utilities can be downloaded from ASRock Live Update &amp; APP Shop.</p> </div>
<b>Support CD</b>	<ul style="list-style-type: none"> <li>- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, XSplit, Killer Network Manager</li> </ul>
<b>Accessories</b>	<ul style="list-style-type: none"> <li>- Quick Installation Guide, Support CD, I/O Shield</li> <li>- 4 x SATA Data Cables</li> <li>- 1 x Screw for M.2 Socket</li> </ul>
<b>Hardware Monitor</b>	<ul style="list-style-type: none"> <li>- CPU/Chassis temperature sensing</li> <li>- CPU/Chassis Fan Tachometer</li> <li>- CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature)</li> <li>- CPU/Chassis Fan multi-speed control</li> <li>- Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore, GT_CPU, DRAM, VPPM, PCH 1.0V, VCCIO, VCCSA</li> </ul>
<b>Form Factor</b>	<ul style="list-style-type: none"> <li>- ATX Form Factor</li> </ul>

<b>OS</b>	<p data-bbox="478 87 1312 121">- Microsoft® Windows® 10 64-bit / 8.1 64-bit / 7 32-bit / 7 64-bit*</p> <div data-bbox="485 175 1864 326"> <p data-bbox="491 191 1795 264">*To install Windows® 7 OS, a modified installation disk with xHCI drivers packed into the ISO file is required. Please check our User Manual for more detailed instructions.</p> <p data-bbox="491 289 1375 318">For the updated Windows® 10 driver, please visit ASRock's website for details.</p> </div>
<b>Certifications</b>	<ul data-bbox="478 344 1249 418" style="list-style-type: none"> <li>- FCC, CE, WHQL</li> <li>- ErP/EuP ready (ErP/EuP ready power supply is required)</li> </ul>