

# Impact-R 4100



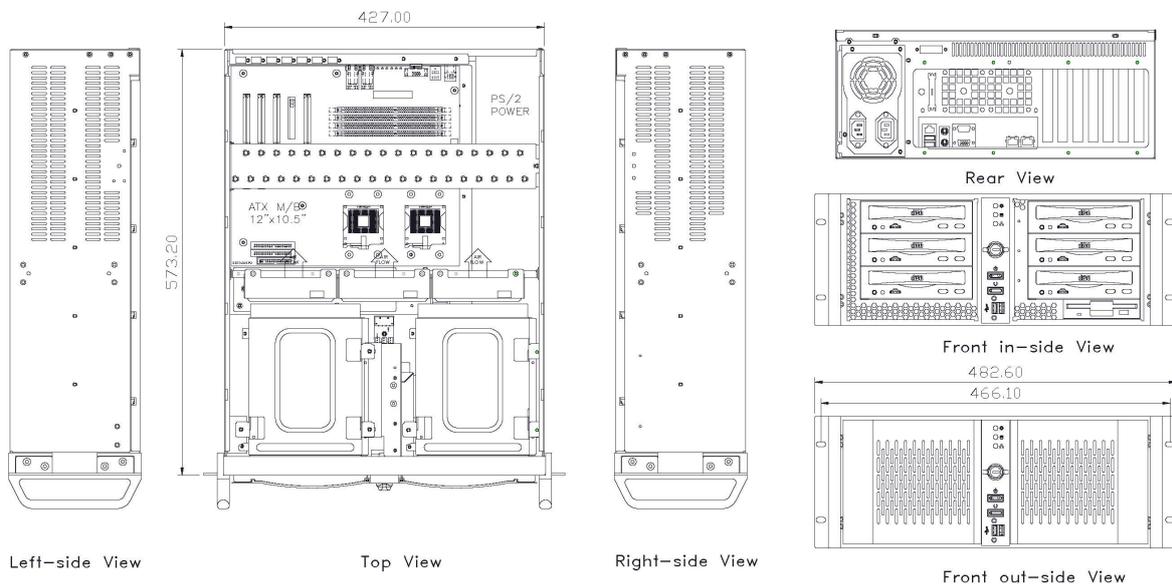
## Features

The Impact-R 4100 series computers are powered by Intel® based commercial motherboards, delivering a compact and flexible computer platform.

- Intel® Comet Lake CPU architecture
- DDR4 Memory up to 128GB
- Supports 3 native displays simultaneously

Our production processes are controlled under ISO 9001 and every system undergoes a full diagnostic burn-in prior to shipment.

## Dimensions



Configuration shown is for illustration purposes only

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## Impact-R 4100

## Specifications

The information is believed to be accurate. However Amplicon Liveline Limited accepts no responsibility for any problems caused by errors and omissions. Specifications are subject to change without notice.

|                        |   |   |  |
|------------------------|---|---|--|
| Hardware Specification | CPU: Intel® LGA1200 10th Generation Core™ i9/i7/i5/i3 and Xeon Chipset: Intel® W480E<br>Memory: 4 x DIMM - max 128GB DDR4 2933MHz non-ECC/LAN: Intel® I211AT/I219LM GbE   | Environmental operation                                     | Acoustic noise: Approximately 49dB(A) sound pressure at 23°C (typical)<br>Temperature: 5 to 60°C (tested for extended operation up to 50°C)<br>Humidity: 5 to 90% at 25°C non-condensing   |
| BIOS                   | Insyde  | Optional Breakout Interfaces (Will use 1 slot per breakout) | 1 x RS-232/422/485 (RS-232 w/ power)<br>4 x RS-232<br>2 x USB 3.2 Gen 2<br>2 x USB 2.0<br>1 x USB 2.0 Vertical Type A<br>1 x Front Audio Header<br>1 x SPDIF SATA<br>1 x PS/2 (mini-DIN-6) LPC<br>1 x LPC (supports LPC EXT-RS232/RS485 module)<br>DIO 1 x 16-bit DIO  |
| Display                | 1 x VGA, resolution up to 1920x1200 @ 60Hz<br>1 x DP++, resolution up to 4096x2160 @ 60Hz<br>1 x HDMI 1.4b, resolution up to 4096x2160 @ 24Hz   |   |  |
| Storage                | Total Drive capacity:<br>6 x 5.25", 1 x 3.5" external, 1 x 3.5" internal<br>RAID: 0, 1, 5, 10<br>Dual M.2 also available  | Mechanical  | Design: EIA RS-310C 19" Rackmount Standard<br>Construction: 1.2mm SECC Zinc-Coated Steel<br>Security: Lockable front door<br>Colour: Black (custom colours available for large orders)<br>Dimensions: 483 x 177 x 573mm (19.0" x 7.0" x 22.6")<br>Packaging Size: 590mm x 331mm x 750mm (23.2" x 13.0" x 29.5")<br>Cooling: 3x 120mm ball bearing fan<br>Air filter: removable (washable)<br>Gross Weight: approximately 22 kg |
| System Expansion       | 2 x PCIe x16 (Gen 3) (1 x16 signal or 2 x8 signal)<br>3 x PCIe x4 (Gen 3) (2 x4 signal and 1 x1 signal)<br>2 x PCI<br>2 x M.2 M key PCIe 3.0 x 4 NVME   |   |  |
| System Architecture    | Intel® Based Industrial motherboard   | Reliability   | System MTBF: Critical components failure >45,000 hrs @ 25°C (we can provide information for specific configurations).<br>Full burn-in diagnostic run on every system.  |
| Supported O/S          | Windows 10/Linux  | Certification   | CE/UKCA  |
| External Interfaces    | Front:<br>2 x USB 2.0/1.1<br>On/Off Switch, Reset<br>Pwr/HDD LEDs<br>Rear:<br>2 x GbE (RJ-45)<br>1 x RS-232/422/485 (RS-232 w/ power) (DB-9)<br>2 x USB 3.2 Gen2<br>2 x USB 3.2 Gen1<br>4 x USB 2.0<br>1 x VGA, 1 x DP++, 1 x HDMI<br>1 x Line-out, 1 x Mic-in, |   |  |
| Environmental storage  | Temperature: -20 to 65°C<br>Humidity: 5 to 90% at 25°C non-condensing   |   |  |

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