

# Impact-R 2060



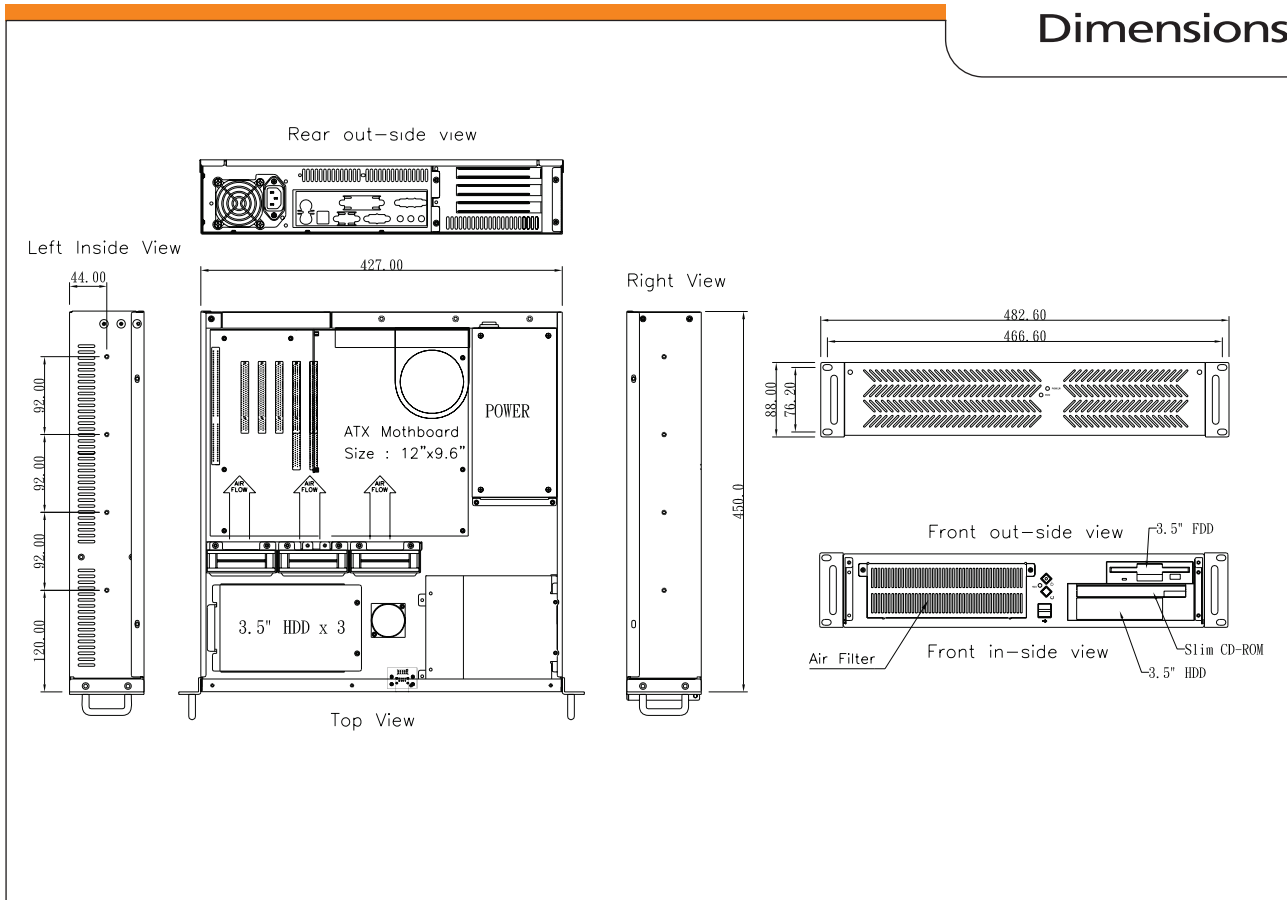
## Features

The Impact-R 2060 series computers are powered by Intel® based motherboards, delivering a compact and flexible computer platform.

- Intel® Skylake CPU architecture
- DDR4 Memory up to 64GB
- 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



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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.

## Specifications

|                         |  |                                     |  |
|-------------------------|--|-------------------------------------|--|
| Hardware Specification  | CPU: Intel® LGA1151 6 <sup>th</sup> generation Core™ i7/i5/i3, Pentium™ and Celeron™<br>Supports Intel® 14nm<br>Chipset: Intel® Q 170 Chipset<br>Memory: 4 x DIMM - max 64GB DDR4 2133MHz non-ECC<br>Dual channel architecture<br>Graphics*1: Integrated GPU:<br>HDMI - max 4096*2160 @ 24Hz and 2560*1600 @ 60Hz<br>Display Port - max 1920*1200 @ 60Hz<br>VGA - max 1920*1200 @ 60Hz<br>LAN: Dual Intel® GbE (i219LM/i210)   | Electromagnetic Compatibility (EMC) | EN55022 Class A<br>EN55024 Industrial severity (where applicable)<br><br>Electrostatic discharge immunity test (EN61000-4-2)<br>±4kV Contact, applied to enclosure port<br>±8kV Air, applied to enclosure port<br>±4kV Indirect, applied to coupling plane<br><br>Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3)<br>80-1000MHz, 10 V/m (RMS, no modulation) 80% Modulation with 1kHz Sine wave<br><br>Electrical fast transient/burst immunity test (EN61000-4-4)<br>Power port AC, inc. protective earth<br>Severity ±2kV<br><br>Surge Immunity test (EN61000-4-5)<br>Power port AC<br>Severity ±2kV applied line to line<br>Severity ±2kV applied line to earth<br><br>Immunity to conducted disturbances induced by radio frequency fields (EN61000-4-6)<br><br>Power port AC, inc. protective earth via CDN M3<br>0.15-80MHz, 10 V/m (no modulation) 80% Modulation with 1kHz Sine wave, applied via CDN type M3<br><br>Voltage dips, short interrupts and voltages variations immunity tests (EN61000-4-11) Power port AC<br>>95% Reduction, 0.5 Periods<br>>30% Reduction, 25 Periods<br>>95% Reduction, 250 Periods<br><br>Limits for harmonic current measurement (EN 61000-3-2), Product Class A<br><br>Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3)<br><br>Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements. |
| Storage*2,3             | Total Drive capacity:<br>4 x 3.5" HDD & 1 x Full height DVD, or 5 x 3.5" HDD & 1 x Slim DVD<br>*Options for mSATA available  | Safety                              | Safety of information technology equipment (EN 60950)<br>CE Marked   |
| System Expansion*4      | 1 x PCIe x16 slot (revision 3.0/2.0)<br>2 x PCIe x4 slot (revision 3.0/2.0)<br>4 x PCI slots<br>1 x mPCIe (full/half length)<br>1 x SIM card slot  | Electrical Ratings                  | Voltage: 90 ~ 264 VAC full range<br>Frequency: 47-63Hz<br>Input current: 8.0 / 4.0A for 115 / 230 VAC<br>Inrush current: 80A max<br>PSU maximum secondary loading: 400W*<br>Active PFC<br>EMI noise filter<br>Over power / voltage / current protection<br>Short circuit protection<br><br>*Higher rated and DC power supply options are available. We recommend that you discuss your power requirements before placing your order.   |
| System Architecture     | Industrial use motherboard   | Reliability                         | System MTBF: Critical components failure >45,000 hrs @ 25°C (we can provide information for specific configurations). Full burn-in diagnostic run on every system.   |
| Supported OS            | Windows 7, Windows 8.1, Windows 10 (32 & 64 bit)   |                                     |  |
| External Interfaces     | Front:<br>2 x USB 2.0/1.1<br>On/Off Switch, Reset<br>Pwr/HDD LEDs<br>Rear:<br>1 x PS/2 Keyboard<br>1 x PS/2 Mouse<br>4 x USB 3.0<br>1 x DP, 1 x HDMI, 1 x VGA<br>2 x Intel GbE RJ45<br>1 x RS232/422/485 DB9<br>2 Stack Audio  |                                     |  |
| Mechanical              | Design: EIA RS-310C 19" Rackmount Standard<br>Construction: Heavy Duty Cold Rolled Electroplated Steel<br>Color: Black (custom colours available for large orders)<br>Dimensions: 483(W) x 88(H) x 450(D)mm (19.0" x 3.5" x 17.7")<br>Packaging Size: 615(W) x 224(H) x 600(D)mm (24.2" x 8.8" x 23.6")<br>Total drive capacity: 1 x Slim 5.25" external, 1 x 3.5" external, 4 x 3.5" internal or 1 x 5.25" external, 1 x 3.5" external, 3 x 3.5" internal<br>Cooling: 3 x 80mm ball bearing fans (42.5 CFM each)<br>Air filter: removable (washable)<br>Gross Weight: approximately 17 kg |                                     |  |
| Environmental operation | Acoustic noise: Approximately 49dB(A) sound pressure at 23°C (typical)<br>Temperature: 5 to 45°C (tested for extended operation up to 50°C)<br>Humidity: 5 to 90% at 25°C non-condensing   |                                     |  |
| Environmental storage   | Temperature: -20 to 65°C<br>Humidity: 5 to 90% at 25°C non-condensing  |                                     |  |

\*1 Supports up to 3 independent screens

\*2 SATA III 6Gb/s

\*3 2.5" and caddy options available

\*4 Low Profile cards only

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