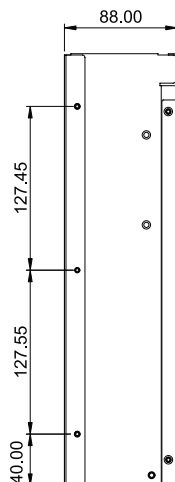# Impact-R 156/157

## Features

The Impact-R series utilise industrial components, which provide revision control together with a 15-year product life.
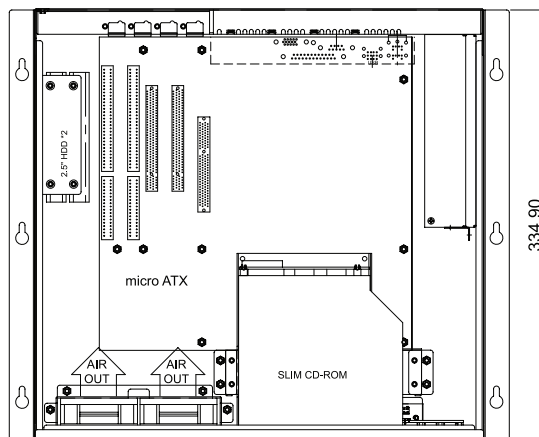
Our production processes are controlled under ISO 9001 and every system undergoes a full diagnostic burn-in prior to shipment.

- Intel® SKL/KBL Processor support
- Up to 32GB RAM
- 2 PCIe slots
  *(3 PCIe slots available by request)*
- Compact design
- Wall/Desk/Rack Mountable
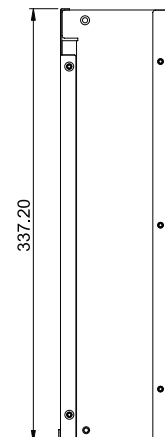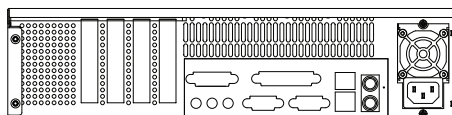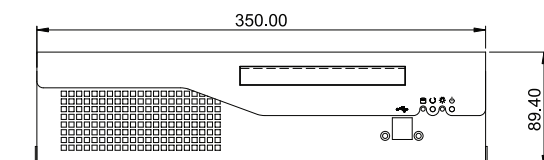
## Dimensions

88.00

127.45

127.55

40.00

2.5" HDD *2

micro ATX

AIR OUT   AIR OUT

SLIM CD-ROM

334.90

337.20

**Left-side View**

**Top View**

**Right-side View**

350.00

89.40

**Rear View**

**Front out-side View**

# Impact-R 156/157

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 6th/7th generation Core™ i7/i5/i3, Pentium™ and Celeron™<br>Chipset: Intel® Q 170 Chipset<br>Memory: 2 x 288-pin Long-DIMM dual channel DDR4-2133, up 32 GB<br>LAN: Dual Intel® GbE (i219LM/i211AT) |
| Storage | Total Drive capacity:<br>2 x 2.5" HDD & 1 x slim DVD<br>*Options for mSATA available |
| System Expansion | 2 full height PCIe (x16, x8,) (x4 slot is available by request)*1<br>1 x mPCIe (FL)<br>1 x SIM card slot |
| System Architecture | Industrial use mini-ITX motherboard |
| Supported O/S *2 | 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>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>1 x RS232 DB9<br>2 Stack Audio |
| Mechanical | Design: Compact desktop / wallmount (brackets supplied)<br>Construction: Heavy duty cold rolled electroplated steel<br>Colour: Black / Silver (custom colours available for large orders)<br>Dimensions: 350 x 89 x 337mm (13.8" x 3.5" x 13.3")<br>Packaging size: 460 x 220 x 450 mm (18.1" x 8.7" x 17.7")<br>Cooling : 2x(60mm = 23.5CFM ea.) Fans<br>Gross weight: 5.8 kgs / 12.8 lbs |
| Environmental operation | Acoustic noise: Approximately 46dBA sound pressure at 23°C (typical)<br>Temperature: 0 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 |

| | |
|---|---|
| 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)<br>80% Modulation with 1kHz Sine wav<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>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>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. |
| Safety | Safety of information technology equipment (EN 60950) |
| Electrical Ratings | Voltage: 100 ~ 240 VAC full range<br>Frequency: 47 ~ 63Hz<br>Input current: 6.0 / 3.0A for 47Hz / 63Hz<br>PSU maximum secondary loading: 300W*<br>(+3.3V and +5V combined load should not exceed 110W)<br>Active PFC<br>Over power / voltage / current / temperature 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. |
| Reliability | System MTBF: Critical components failure >45,000 hrs @ 25°C<br>(we can provide information for specific configurations)<br>Full burn-in diagnostic run on every system |

*1 PCIe lanes are dynamically spread over the 3 slots
*2 Skylake CPU only. KabyLake will support Windows 10 64bit only