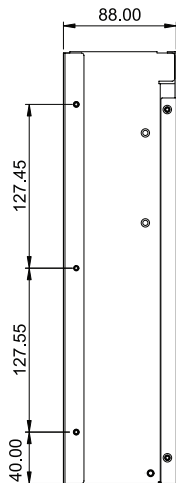# Impact-R 156/157

Features

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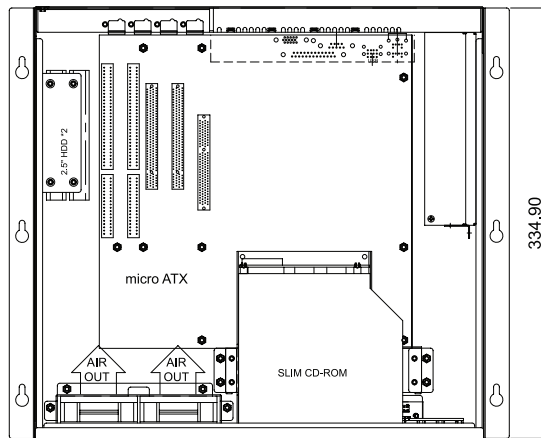
Our production processes are controlled under ISO 9001 and every system undergoes a full diagnostic burn-in prior to shipment.

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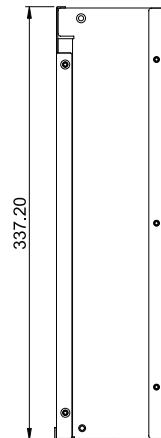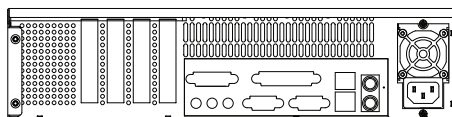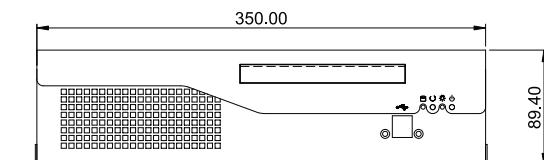- Wall/Desk/Rack Mountable

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™ Chipset: Intel® Q 170 Chipset Memory: 2 x 288-pin Long-DIMM dual channel DDR4-2133, up 32 GB LAN: Dual Intel® GbE (i219LM/i211AT)	Electromagnetic Compatibility (EMC)	EN55022 Class A EN55024 Industrial severity (where applicable) Electrostatic discharge immunity test (EN61000-4-2) ±4kV Contact, applied to enclosure port ±8kV Air, applied to enclosure port ±4kV Indirect, applied to coupling plane Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3) 80-1000MHz, 10 V/m (RMS, no modulation) 80% Modulation with 1kHz Sine wav
Storage	Total Drive capacity: 2 x 2.5" HDD & 1 x slim DVD *Options for mSATA available		Electrical fast transient/burst immunity test (EN61000-4-4) Power port ac, inc. protective earth Severity ±2kV Surge Immunity test (EN61000-4-5) Power port ac Severity ±2kV applied line to line Severity ±2kV applied line to earth
System Expansion	2 full height PCIe (x16, x8,) *(x4 slot is available by request)*[1] 1 x mPCIe (FL) 1 x SIM card slot		
			Immunity to conducted disturbances induced by radio frequency fields (EN61000-4-6) Power port ac, inc. protective earth via CDN M3 0.15-80MHz, 10 V/m (no modulation) 80% Modulation with 1kHz Sine wave, applied via CDN type M3
System Architecture	Industrial use mini-ITX motherboard		
Supported O/S *[2]	Windows 7, Windows 8.1, Windows 10 (32 & 64 bit)		Voltage dips, short interrupts and voltages variations immunity tests (EN61000-4-11) Power port ac >95% Reduction, 0.5 Periods >30% Reduction, 25 Periods >95% Reduction, 250 Periods
External Interfaces	Front: 2 x USB 2.0/1.1 On/Off Switch, Reset Pwr/HDD LEDs Rear: 4 x USB 3.0 1 x DP, 1 x HDMI, 1 x VGA 2 x Intel GbE RJ45 1 x RS232/422/485 DB9 1 x RS232 DB9 2 Stack Audio		Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3) Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements.
Mechanical	Design: Compact desktop / wallmount (brackets supplied) Construction: Heavy duty cold rolled electroplated steel Colour: Black / Silver (custom colours available for large orders) Dimensions: 350 x 89 x 337mm (13.8" x 3.5" x 13.3") Packaging size: 460 x 220 x 450 mm (18.1" x 8.7" x 17.7") Cooling : 2x(60mm = 23.5CFM ea.) Fans Gross weight: 5.8 kgs / 12.8 lbs	Safety	Safety of information technology equipment (EN 60950)
		Electrical Ratings	Voltage: 100 ~ 240 VAC full range Frequency: 47 ~ 63Hz Input current: 6.0 / 3.0A for 47Hz / 63Hz PSU maximum secondary loading: 300W* (+3.3V and +5V combined load should not exceed 110W) Active PFC Over power / voltage / current / temperature protection Short circuit protection *Higher rated and DC power supply options are available. We recommend that you discuss your power requirements before placing your order.
Environmental operation	Acoustic noise: Approximately 46dBA sound pressure at 23°C (typical) Temperature: 0 to 45°C (tested for extended operation up to 50°C) Humidity: 5 to 90% at 25°C non-condensing		
Environmental storage	Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing	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

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