

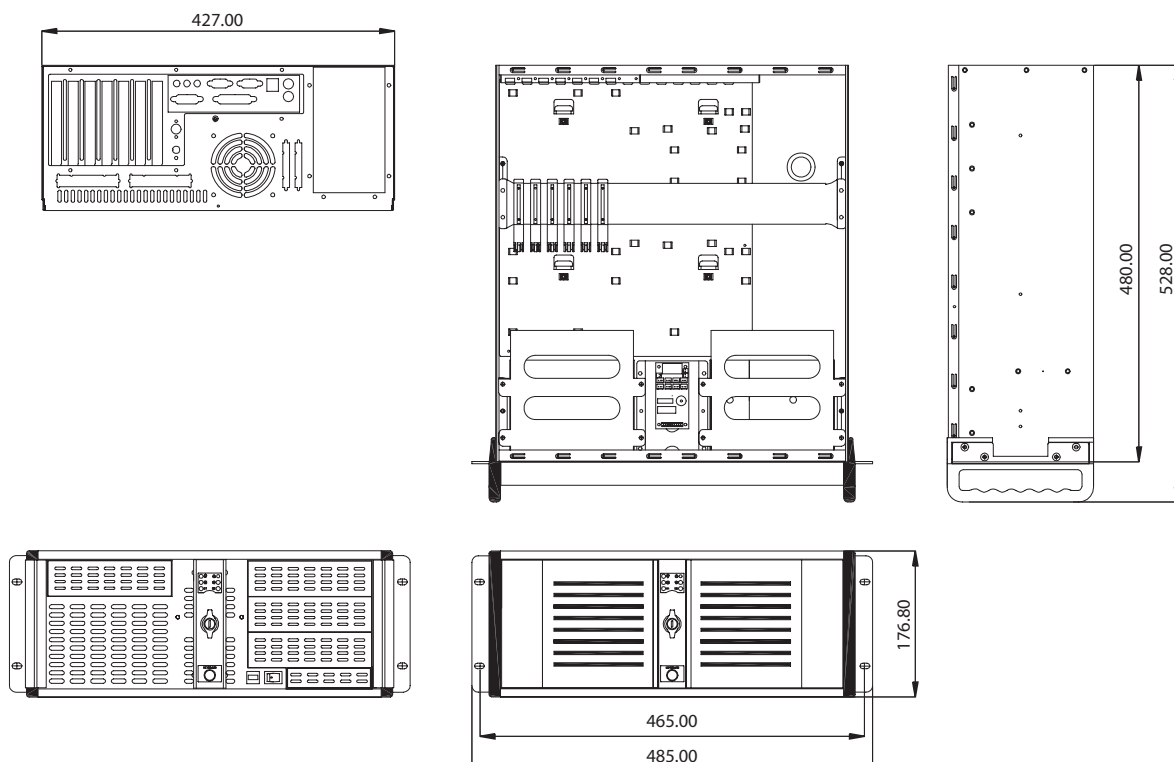
# Impact-R 4041/42/43



## Features

- Intel® i5/i7 Processor with Hyper-threading and TurboBoost
- Supports Intel AMT 9.0, RAID 0, 1, 5, 10
- 3 year warranty, first year onsite (UK customers only)
- Custom colours and OEM branding service available
- Constructed from roadmapped industrial components
- Designed for mission critical 24/7 applications
- Assembled and tested within a lean manufacturing environment under ISO 9001

## Dimensions



Configuration shown is for illustration purposes only

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# Impact-R 4041/42/43

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	Processors incorporated in to each model: Impact-R 4041 – Intel® Core™ i3-4330 Impact-R 4042 – Intel® Core™ i5-4570S Impact-R 4043 – Intel® Core™ i7-4770S  Chipset: Intel® Q87 Platform Controller Hub Main memory: 2GB DDR3 dual channel (max 32GB) Video: Intel® HD Graphics LAN: Dual Intel® i217LM with iAMT v9.0, i210) Watchdog Timer: 1-255 sec or 1-255 min	Environmental storage	Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing
BIOS	AMI	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 wave  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  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  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  Voltage dips, short interrupts and voltages variations immunity tests (EN61000-6-2) Power port ac >30% Reduction, 0.5 Periods >60% Reduction, 25 Periods >100% Reduction, 250 Periods Limits for harmonic current measurement (EN 61000-3-2), Product Class D 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.
Storage	500GB SATA HDD 7200rpm DVDRW Total drive capacity: 4 x 5.25" external, 1 x 3.5" external, 2 x 3.5" internal We can provide storage and backup solutions for any application	Safety	Safety of information technology equipment (EN 60950) CE Marked
System expansion	1 x PCIe x16 (Gen 3.0) 1 x PCIe x4 1 x PCIe x1 4 x PCI (v2.3)	Electrical Ratings	Voltage: 90 – 264 VAC full range Frequency: 47–63Hz Input current: 10.0 / 5.0A for 115 / 230 VAC Inrush current: 80A max PSU maximum secondary loading: 460W (typical 150W)* Active PFC EMI noise filter Over power / voltage / current protection Short circuit protection *Higher rated power supplies are available and we recommend that you discuss your power requirements before placing your order
System architecture	Industrial ATX form factor motherboard	Reliability	System MTBF typically: >20,000 hrs @ 30°C (we can provide information for specific configurations) Diagnostic and burn-in tests run on every system
Supported OS (Operating System)	Windows 7, WES7, Windows 8/8.1, Server 2008R2, Server 2012  If your desired operating system is not listed or you wish to check support for Linux, please contact us.		
Internal interfaces	Serial port : 6 ports COM1/2 : RS232/422/485 with DB9 male connector on edge I/O COM3/4/5/6 : RS232 2x5/ 2.54mm box header USB 2.0/ 3.0 : 12 ports 4x USB 3.0 ports by edge connectors 2x USB 2.0 ports by edge connectors 4x USB 2.0 ports by 2x 5-pin header pitch 2.54mm 2x Vertical Type A USB Connectors GPIO : Support 4 x GPI and 4 x GPO with TTL level(0/5V) 1x 3-pin and 1x 4-pin fan connectors for CPU 1x 3-pin and 1x 4-pin fan connectors for System 1x 18-pin header for TPM 1x 26-pin header for Parallel port 1x On-board buzzer Power LED/ Power On/ Reset/ HDD LED pin header		
LEDs and switches	Power (PC ON) LED Hard disk access LED Front: ATX system control switch, system reset		
External interfaces	1x Combo for PS2 KB/ MS 2x stack DB9 for COM1 & COM2 1x DVI 1x HDMI with dual stack USB 2.0 (black) 1x VGA 2x RJ45 with dual stack USB 3.0 (blue) connectors Lin e-In/ Line-Out/ MIC phone jack		
Mechanical	Design: EIA RS-310C 19" Rackmount Standard Construction: 1.2mm SECC Zinc-Coated Steel Security : Lockable front doors Colour: Black (custom colours available for large orders) Dimensions: 485 (W) x 176.8 (H) x 480 (D) mm (19.1" x 7.0" x 18.9") Packaging size: 541 (W) x 280 (H) x 660 (D) mm (21.3" x 11.0" x 26.0") Total drive capacity: 4 x 5.25" external, 1 x 3.5" external, 2 x 3.5" internal Cooling : 1 x 120mm ball bearing fan Air filter: removable (washable) Gross weight: approximately 20kg		
Environmental operational	Acoustic noise: 49dBA sound pressure at 23°C (typical) 51dBA (peak) * Temperature: 0 to 45°C (tested for extended operation up to 50°C) Humidity: 5 to 90% at 25°C non-condensing Please contact us to discuss extended or harsher environmental specifications We can design systems to meet additional requirements * Thermally controlled system fans run at peak operating speed during system start up. Speed is reduced based system temperature.		

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