

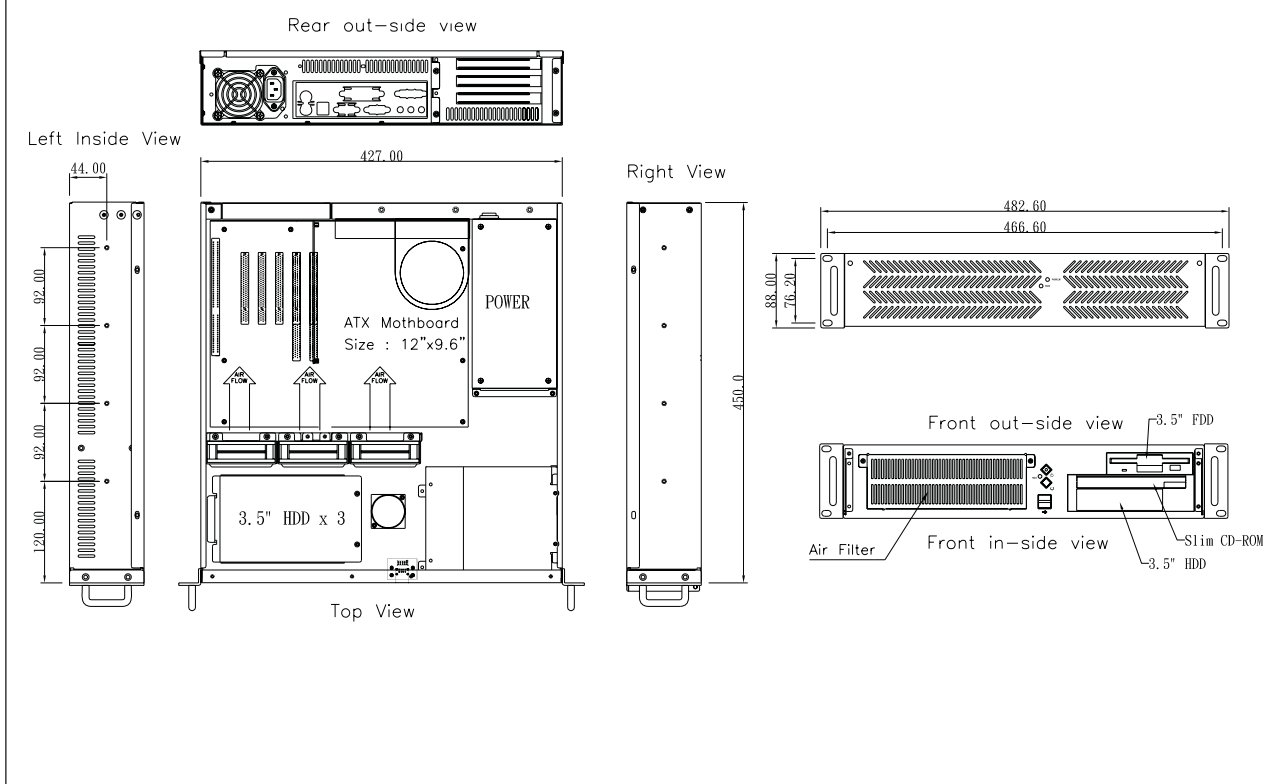
# Impact-R 2041/42/43



## 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 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



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# Impact-R 2041/42/43

## 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	Processors incorporated in to each model: Impact-R 2041 – Intel® Core™ i3-4330 Impact-R 2042 – Intel® Core™ i5-4570S Impact-R 2043 – 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 interruptions 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 interruptions 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 test to meet your requirements.
Storage	64GB SATA III HDD DVDRW (standard height) Total drive capacity: 1 x 5.25" external, 1 x 3.5" external, 3 x 3.5" internal or 1 x Slim 5.25" external, 1 x 3.5" external, 4 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: 8.0 / 4.0A for 115 / 230 VAC Inrush current: 65A / 125A max Typical operational current: : 0.5 – 1A (base system) PSU maximum secondary loading: 460W* Active PFC EMI noise filter Over power / voltage / current protection Short circuit protection  Higher rated and DC power supplies options are available. We recommend that you discuss your power requirements before placing your order
System architecture	Industrial ATX form factor motherboard	Reliability	System MTBF: >25,000 hrs @ 25°C Diagnostic burn-in 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 e dge 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 Line-In/ Line-Out/ MIC phone jack		
Mechanical	Design: EIA RS-310C 19" Rackmount Standard Construction: Heavy duty cold rolled electroplated steel Colour: Black (custom colours available for large orders) Dimensions: 483(W) x 88(H) x 450(D) mm (19" x 3.5" x 17.7") Packaging size: 630(W) x 248(H) x 574(D) mm (24.8" x 9.8" x 22.6") Cooling: 3 x 80mm fan, 42.5 CFM each Air filter: removable (washable) Gross weight: approximately 20kg		
Environmental operational	Acoustic noise: 47dBA sound pressure at 23°C (typical) Temperature: 0 to 40°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 Low noise fan options are available (maximum operating temperature 35°C)  We can design systems to meet additional requirements		

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