

# Impact-R 3018



## Features

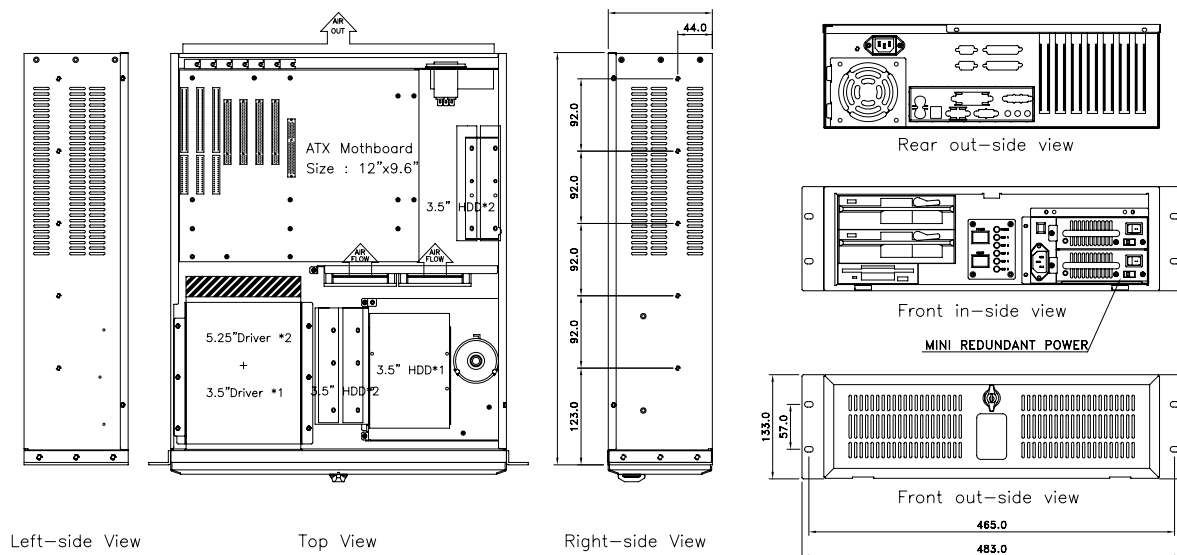
The Impact-R 3018 incorporates a high reliability industrial motherboard featuring the Intel Q45 ICH10-DO chipset. Powered by an Intel Core 2 Processor, this system provides both PCI and PCI Express expansion and features onboard RAID.

The Impact-R series utilises industrial components which provide revision control together with a 5-year product life.

Our systems are assembled and tested within a lean manufacturing environment controlled under our ISO 9001 quality system.

Systems can be tailored to meet your exact requirements. Each system comes with a 3 year warranty, with the first year onsite as standard.

## Dimensions



Configuration shown is for illustration purposes only

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# Impact-R 3018

## 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	CPU: Intel Core 2 Duo E7400 LGA775, 2.80GHz, 1066MHz, 3MB cache Chipset: Intel Q45 and ICH10-DO Main memory: 2GB DDR3 dual channel Upgradeable to: 8GB (may be limited by O/S) Video: Built-in Intel GMA 4500 integrated graphic engine LAN: 2 ports support 10/100/1000 Mbps, with Realtek RTL8111C Audio: HD Codex audio as Mic-in/ Line-out/ Speaker-out with Realtek ALC262 SATA: 6 x SATA-300 Onboard RAID: ICH10-DO supports RAID 0/ 1/ 10/ 5 function Watchdog Timer: 255 levels, 0-255 sec. Resolution: Analog display: VGA up to 2048 x 1536 @ 75Hz with 32-bit colour.	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  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.
BIOS	Award BIOS	Safety	Safety of information technology equipment (EN 60950) CE Marked
Storage	250GB RAID Edition SATA Hard Drive DVDRW drive  Total drive capacity: 2 x 5.25", 1 x 3.5" external, 4 x 3.5" internal  We can provide storage and backup solutions for any application	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 (150W typical)* 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 expansion	5 x PCI 32 Bit PCI slots (1 x 250mm, 1 x 180mm length) 1 x PCI Express x 4 slot 1 x PCI Express x 16 graphics slot (180mm length, suitable for single slot width cards)	Reliability	System MTBF: Critical components failure >20,000 hrs @ 30°C (we can provide information for specific configurations) Full burn-in diagnostic run on every system
System architecture	Industrial ATX form factor motherboard		
Supported OS (Operating System)	Windows XP, Windows Vista, Windows 7 and Linux. If your desired operating system is not listed or you wish to check support for a specific version of Linux, please contact us.		
Internal interfaces	4 connectors for 8 external USB 2.0/1.1 ports 2 connectors for 2 external RS232 serial ports 1 8-bit DIO connector 1 front audio connector for line-out and mic-in jacks 1 CD-in connector 1 S/PDIF connector 6 Serial ATA connectors 1 40-pin IDE connector 1 FDD connector 1 24-pin ATX power connector 1 4-pin 12V power connector 1 chassis intrusion connector 1 front panel connector 3 fan connectors		
LEDs and switches	Power (PC ON) LED Hard disk access LED x 5 Front: ATX system control switch, system reset		
External interfaces	1 mini-DIN-6 PS/2 mouse port 1 mini-DIN-6 PS/2 keyboard port 2 DB-9 RS232 serial ports 1 DVI-I port (DVI-D signal only) 1 DB-15 VGA port 2 RJ45 LAN ports 4 USB 2.0/1.1 ports Mic-in, line-in and line-out		
Mechanical	Design: EIA RS-310C 19" Rackmount Standard Construction: 1.2mm SECC Zinc-Coated Steel 1 x Parallel port (ECP/EPP/SPP) Colour: Black (custom colours available for large orders) Dimensions: 483 (W) x 133 (H) x 526 (D) mm (19" x 5.2" x 20.7") Packaging size: 588 (W) x 285 (H) x 703 (D) mm (23.1" x 11.2" x 27.7") Total drive capacity: 2 x 5.25", 1 x 3.5" external, 4 x 3.5" internal Cooling : 1 x 80mm, 2 x 92mm ball bearing fan Air filter: removable (washable) Gross weight: approximately 18kg		
Environmental operational	Acoustic noise: Approximately 52dBA 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		

15-20-09

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