

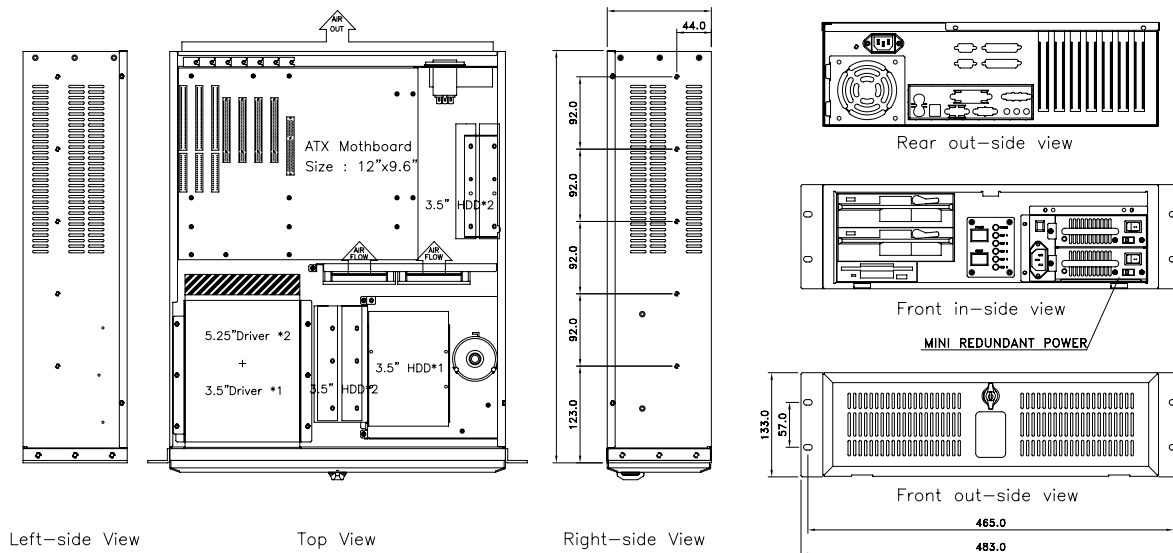
Impact-R 3020/21



Features

- Intel i5/i7 Processor with Hyper-threading and TurboBoost
- Supports Intel AMT 6.0, RAID 0, 1, 5, 10
- 3 year warranty, first year onsite
- 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

Sales: +44 (0) 1273 570 220 Admin: +44 (0) 1273 608 331 Fax: +44 (0) 1273 570 215 Website: www.amplicon.com Email: sales@amplicon.com

Impact-R 3020/21

Specifications

The information is believed to be accurate. However Amplicon Limited accepts no responsibility for any problems caused by errors and omissions. Specifications are subject to change without notice.

Hardware specification	Processors incorporated into each model: Impact-R 3020 - Intel Core i5 660 LGA1156, 3.33GHz, 4MB smart cache Impact-R 3021 - Intel Core i7 860 LGA 1156, 2.80GHz, 8MB smart cache Chipset: Intel Q57 supports RAID 0, 1, 10 and 5 Main memory: 2GB DDR3 1066 / 1333MHz, dual channel (maximum 16GB*) Video: Intel HD Graphics (3020 Only), PCIe x16 Card 256 / 512MB (3021) Display Resolution: VGA up to 2048 x 1536 @ 75Hz with 32-bit colour, Display Port up to 1920 x 1080 LAN: 2 ports as 10/100/1000Mbps support Wake-on-LAN, PXE Boot ROM, 1 x Realtek RTL8111DL + 1 x Intel W82578DM w/ IAMT6.0 Watchdog timer: 255 levels, 1-255 seconds Hardware Monitor: Supports CPU temperature, system temperature, power failure and smart fan control. * Usable memory capacity may be limited by the operating system.	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 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.
Storage	250GB SATA HDD 7200rpm DVDRW Total drive capacity: 2 x 5.25" external, 1 x 3.5" external, 4 x 3.5" internal We can provide storage and backup solutions for any application		
System expansion	3 x PCI 32 Bit PCI slots (1 x 250mm, 1 x 180mm length) 2 x PCIe x1. 1 x PCIe x4. 1 x PCI Express x16 graphics slot * PCIe x16 Slot used by dedicated video card in xx21 variant		
System architecture	Industrial ATX form factor motherboard		
Supported OS (Operating System)	Windows XP, Windows 7 32/64 Bit, Windows Server 2008 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 additional external USB 2.0 ports 2 connectors for 2 external COM ports 1 DIO connector 1 front audio connector 1 CD-in internal audio connector 1 S/PDIF connector 6 Serial ATA ports 1 FDD connector 1 24-pin ATX power connector 1 8-pin 12V power connector 1 chassis intrusion connector 1 front panel connector 2 fan connectors		
LEDs and switches	Power (PC ON) LED Hard disk access LED 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 COM ports 1 VGA port 1 DVI-I port (DVI-D signal only) 2 RJ45 LAN ports 4 USB ports Mic-in, line-in and line-out jacks		
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	Safety	Safety of information technology equipment (EN 60950) CE Marked
Environmental operational	Acoustic noise: Approximately 52dBA sound pressure at 23°C (typical) 53 dBA (peak) Temperature: 0 to 45°C (tested for extended operation up to 50°C) Humidity: 5 to 90% at 25°C non-condensing * Thermally controlled system fans run at peak operating speed during system start-up. Speed is reduced based system temperature.	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
		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

Model	PCIe slots	PCI slots	Processor
Impact-R 3020	4	3	Intel Core i5 660 3.33Ghz (Dual Core)
Impact-R 3021	4	3	Intel Core i7 860 2.8Ghz (Quad Core)

Sales: +44 (0) 1273 570 220 Admin: +44 (0) 1273 608 331 Fax: +44 (0) 1273 570 215 Website: www.amplicon.com Email: sales@amplicon.com