

Impact 3100



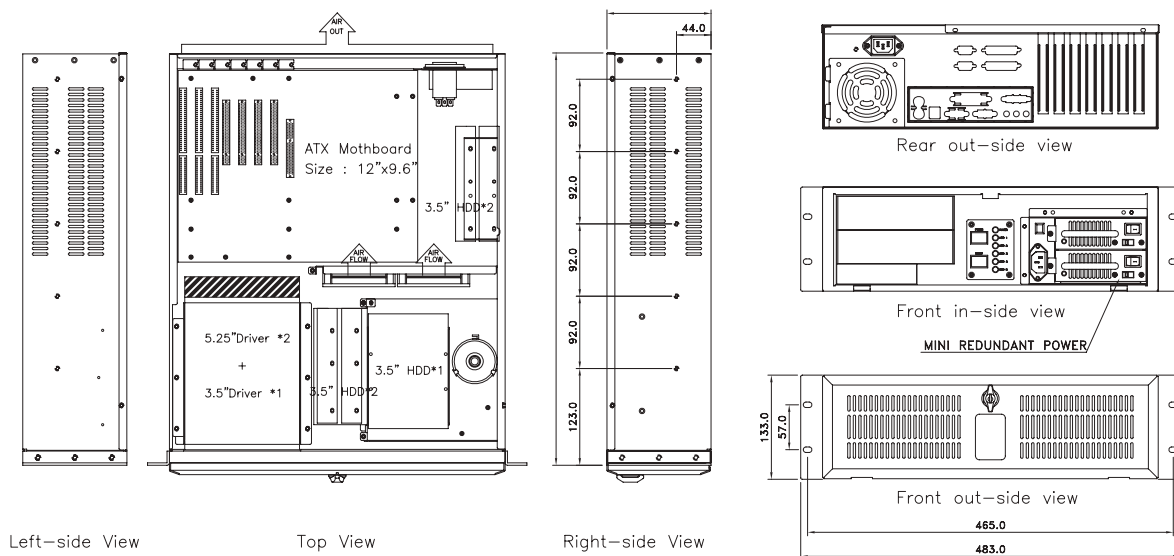
Features

The Impact 3100 series computers are powered by Intel® based commercial motherboards, delivering a compact and flexible computer platform

- Intel® Comet Lake CPU architecture
- DDR4 Memory up to 128GB
- Supports 3 native displays simultaneously

Our production processes are controlled under ISO 9001 and every system undergoes a full diagnostic burn-in prior to shipment.

Dimensions



Configuration shown is for illustration purposes only

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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® LGA1200 10th Generation Core™ i7/i5/i3 Supports Intel® 14nm Supports Intel® Turbo Boost Technology 2.0*1 Chipset: Intel® B460 Memory: 4 x DIMM - max 128GB DDR4 2933MHz non-ECC LAN: RealTek® RTL8111H GbE	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
Display	DP1.2: resolution up to 4096x2304 @ 60Hz		
Storage*3,4	Total Drive capacity 4 x 3.5" HDD & 1 x Full height DVD, or 5 x 3.5" HDD & 1 x Slim DVD 1 x M.2 Socket 3, with M Key, type 224222602280 storage devices support (SATA mode & X4 PCIe mode) 1 x M.2 Socket 3, with M Key, type 224222602280 storage devices support (x4 PCIe mode) Intel® Optane™ Memory Ready. We can provide storage and backup solutions for any application.		
System Expansion	1 x PCIe x16 slot (revision 3.0/2.0) 2 x PCIe x1 slots (revision 3.0/2.0) 1 x M.2 M key SATA/PCIe 1 x M.2 M key PCIe 3.0 x4 NVME		
System Architecture	Intel® Based commercial motherboard		
Supported OS	Windows 10/Linux	Safety	Safety of information technology equipment (EN 60950) CE Marked
External Interfaces	Front: 2 x USB 2.0/1.1 On/Off Switch, Reset Pwr/HDD LEDs Rear: 1 x PS/2 keyboard/mouse combo port(s) 1 x DVI-D 1 x DisplayPort 1 x HDMI 1 x LAN (RJ45) port(s) 4 x USB 3.2 Gen 1 Type-A 2 x USB 2.0 3 x Audio jack(s)	Electrical Ratings	Voltage: 90 ~ 264 VAC full range Frequency: 47~63Hz Input current: 8.0 / 4.0A for 115 / 230 VAC Inrush current: 80A max PSU maximum secondary loading: 400W* Active PFC EMI noise filter Over power / voltage / current 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.
Mechanical	Design: EIA RS-310C 19" Rackmount Standard Construction: 1.2mm SECC Zinc-Coated Steel Security: Lockable front door Color: Black (custom colours available for large orders) Dimensions: 483(W) x 133(H) x 526(D)mm (19.0" 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: removeable (washable) Gross Weight: approximately 18 kg	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.
Environmental operation	Acoustic noise: Approximately 49dB(A) sound pressure at 23°C (typical) Temperature: 5 to 45°C (tested for extended operation up to 50°C) Humidity: 5 to 90% at 25°C non-condensing		

*1 Depend on CPU type

*2 Supports up to 3 independent screens

*3 SATA III 6Gb/s

*4 2.5" and caddy options available

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IT and Instrumentation for industry

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