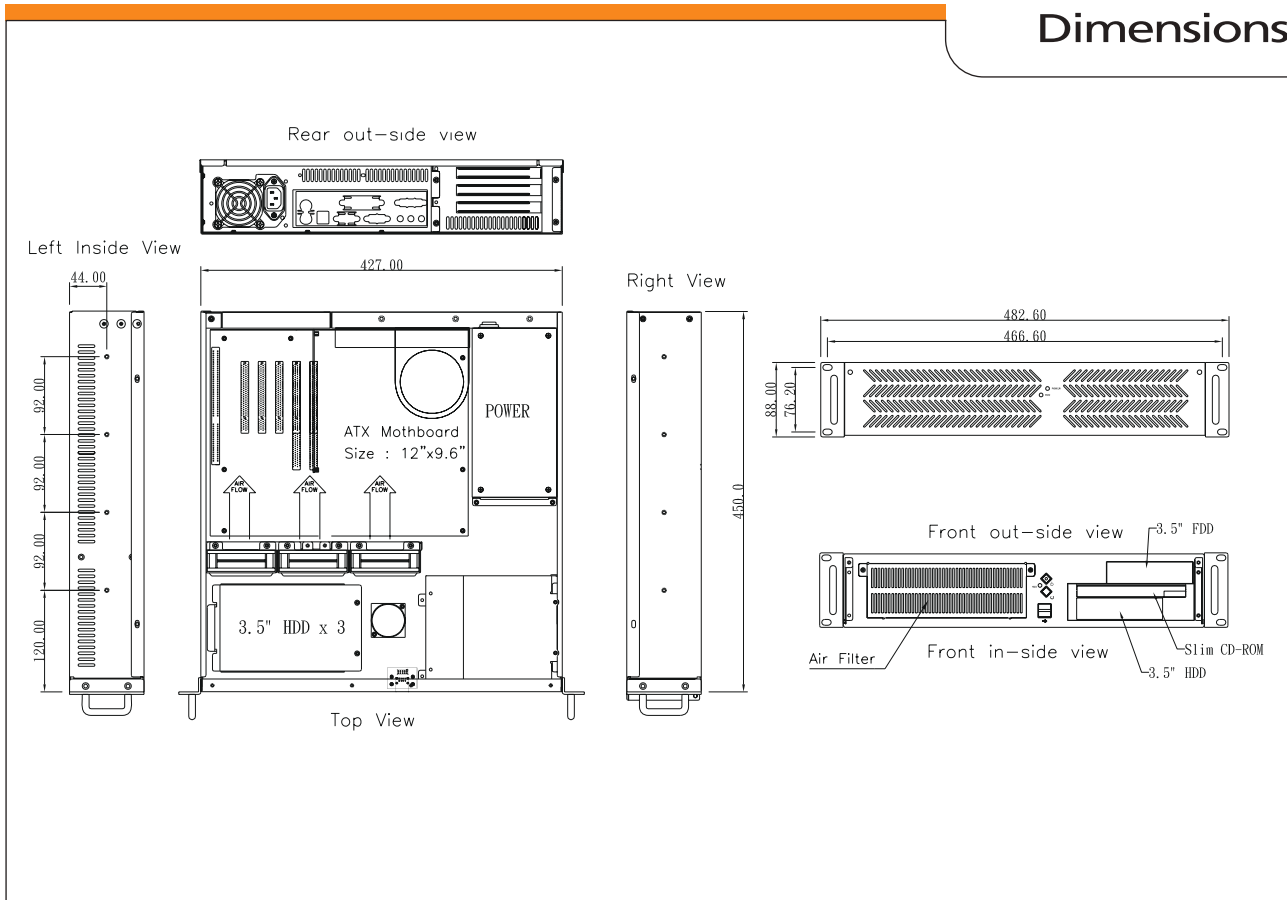# Impact 2100

Features

The Impact 2100 series are powered by Intel® based commercial motherboards, delivering a compact and flexible computer platform.

- Intel® Coffee 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

Rear out-side view

Left Inside View

427.00

44.00

92.00

92.00

92.00

120.00

ATX Mothboard
Size : 12"x9.6"

POWER

AIR FLOW   AIR FLOW   AIR FLOW

3.5" HDD x 3

Top View

Right View

450.0

482.60
466.60

88.00
76.20

Front out-side view   3.5" FDD

Air Filter   Front in-side view   Slim CD-ROM
                                        3.5" HDD

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**

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Impact 2100

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® 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
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.
BIOS	AMI
Display	DP1.2: resolution up to 4096x2304 @ 60Hz
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 x 4 NVME
System Architecture	Intel® Based commerical motherboard
Supported O/S	Windows 10/Linux

External Interfaces	Front:
	  2 x USB 2.0/1.1
	  On/Off Switch, Reset
	  Pwr/HDD LEDs
	Rear:
	  2 x PS/2 keyboard/mouse combo port(s)
	  1 x DVI-D
	  1 x HDMI
	  1 x DisplayPort
	  2 x USB 2.0/
	  4 x USB 3.2 Gen 1 Type-A
	  1 x LAN (RJ45) port(s)
	  3 x Audio jack(s)

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 (19.0" x 3.5" x 17.7") Package Size: 615(W) x 224(H) x 600(D)mm (24.2" x 8.8" x 23.6") Total drive capacity: 1 x Slim 5.25" external, 1 x 3.5" external, 4 x 3.5" internal or 1 x 5.25" external, 1 x 3.5" external, 3 x 3.5" internal Cooling: 3 x 80mm ball bearing fans (42.5 CFM each) Air filter: removable (washable) Gross Weight: approximately 17 kg

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
Electromagnetic Compatibility (EMC)	EN 55022 Class A EN 55024 Electrostatic discharge immunity test (EN61000-4-2) Enclosure port ±4kV Contact, applied to enclosure port ±8kV Air, applied to enclosure port Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3) Enclosure port 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 inc. protective earth Severity ±0.5kV Immunity to conducted disturbances induced by radio frequency fields (EN61000-4-6) Power port inc. protective earth via CDN M3 0.15-80MHz, 10 V/m (no modulation) 80% Modulation with 1kHz Sine wave, applied via CDN Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements. Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements.
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.
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 storage	Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing
Certifications	CE

*1 Depend on CPU type
*2 Supports up to 3 independant screens
*3 SATA III 6Gb/s
*4 2.5" and caddy options available
*5 Low Profile cards only

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