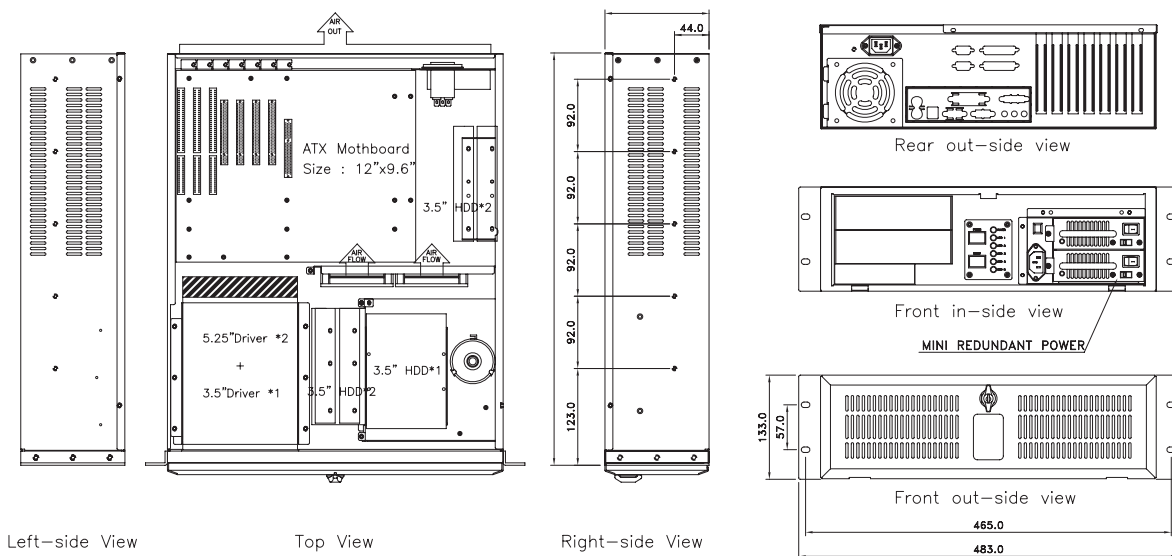# Impact-R 3100

Features

The Impact-R 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

Left—side View   Top View   Right—side View

Rear out—side view

Front in—side view

MINI REDUNDANT POWER

Front out—side view

Configuration shown is for illustration purposes only

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Impact-R 3100

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™ i9/i7/i5/i3 and Xeon Chipset: Intel® W480E Memory: 4 x DIMM - max 128GB DDR4 2933MHz non-ECCLAN: Intel® I211AT/I219LM GbE
BIOS	Insyde
Display	1 x VGA, resolution up to 1920x1200 @ 60Hz 1 x DP++, resolution up to 4096x2160 @ 60Hz 1 x HDMI 1.4b, resolution up to 4096x2160 @ 24Hz
Storage	Total drive capacity: 2 x 5.25", 1 x 3.5" external 4 x 3.5" internal RAID: 0, 1, 5, 10 Dual M.2 also available
System Expansion	2 x PCIe x16 (Gen 3) (1 x16 signal or 2 x8 signal) 3 x PCIe x4 (Gen 3) (2 x4 signal and 1 x1 signal) 2 x PCI 2 x M.2 M key PCIe 3.0 x 4 NVME
System Architecture	Intel® Based Industrial 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 GbE (RJ-45) 1 x RS-232/422/485 (RS-232 w/ power) (DB-9) 2 x USB 3.2 Gen2, 2 x USB 3.2 Gen1, 4 x USB 2.0 1 x VGA, 1 x DP++, 1 x HDMI 1 x Line-out, 1 x Mic-in,

Optional Breakout Interfaces (Will use 1 slot per breakout)	1 x RS-232/422/485 (RS-232 w/ power) 4 x RS-232 2 x USB 3.2 Gen 2 2 x USB 2.0 1 x USB 2.0 Vertical Type A 1 x Front Audio Header 1 x S/PDIF SATA 1 x PS/2 (mini-DIN-6) LPC 1 x LPC (supports LPC EXT-RS232/RS485 module) DIO 1 x 16-bit DIO
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: removable (washable) Gross weight: approximately 18 kg
Environmental storage	Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing
Environmental operation	Acoustic noise: Approximately 49dB(A) sound pressure at 23°C (typical) Temperature: 5 to 60°C (tested for extended operation up to 50°C) Humidity: 5 to 90% at 25°C non-condensing Humidity: 5 to 90% at 25°C non-condensing
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.
Certifications	CE/UKCA

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