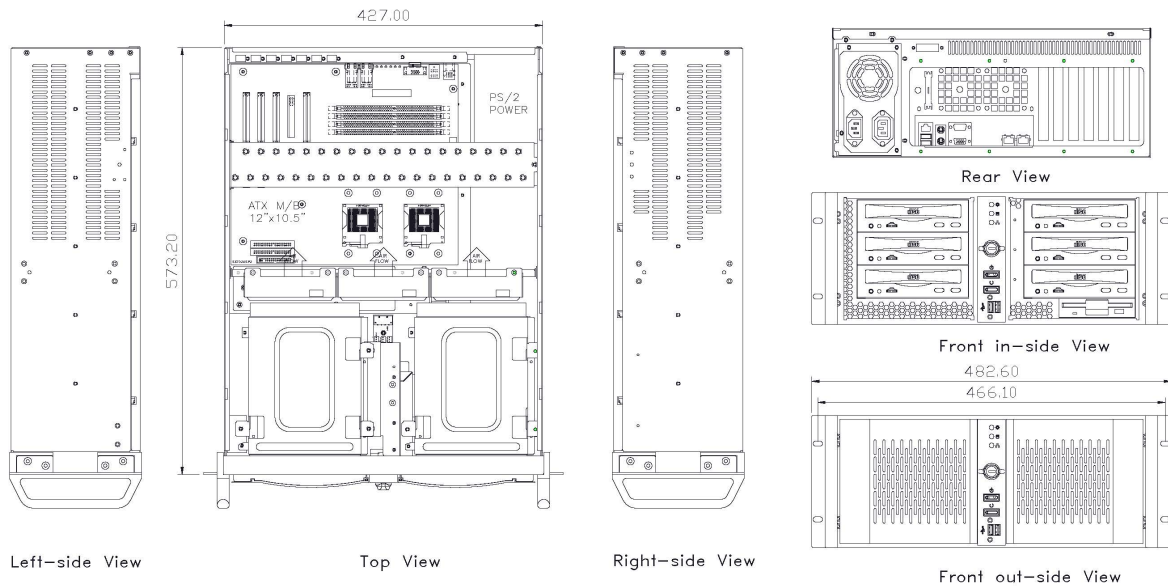# PC-SHOP

Impact-R 4100

Features

The Impact-R 4100 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 View

Front in-side View

Front out-side View

PC-SHOP

Impact-R 4100

Specifications

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: 6 x 5.25", 1 x 3.5" external, 1 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,

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
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 Colour: Black (custom colours available for large orders) Dimensions: 483 x 177 x 573mm (19.0" x 7.0" x 22.6") Packaging Size: 590mm x 331mm x 750mm (23.2" x 13.0" x 29.5") Cooling: 3x 120mm ball bearing fan Air filter: removable (washable) Gross Weight: approximately 22 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.
Certification	CE/UKCA