# Impact 3100

Amplicon.com

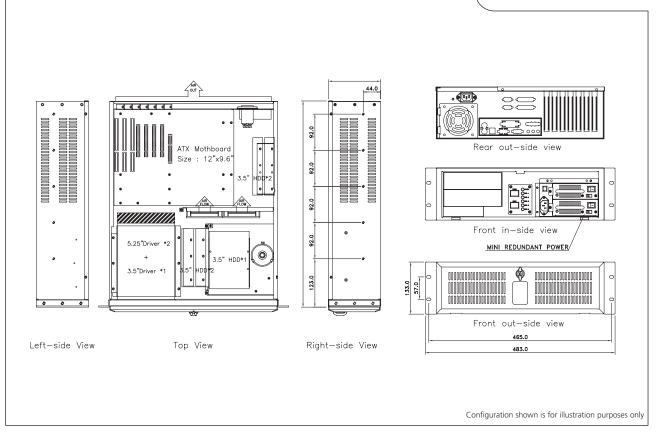
#### **Features**

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



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IT and Instrumentation for industry



## Impact 3100

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

### **Specifications**

Personal process spectra process spectres procesproces spectra process spectra process spectra process				
IndexDescriptionBischammer 2000 (MOD)Bischammer 2000 (MOD	Hardware Specification	Supports Intel® 14nm Supports Intel® Turbo Boost Technology 2.0*1 Chipset: Intel® B460 Memory: 4 x DIMM - max 128GB DDR4 2933MHz non-ECC	Environmental storage	
Bio    AM      Diplay    DP12. resolution up to 4596-234 # 601x      Storage**    Teld Disc capacity 4x 35 * HOD & 1 x 611 height DVD, or 5x 35			Compatibility	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% Modulaton 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
Storage **    Discrimination of the approximation of the full height DND or \$x 35 *HDD A    Storage **    Storage ** <th< td=""><td>BIOS</td><td>AMI</td></th<>	BIOS	AMI		
Storage***  Foat Dive capacity 4.3 5* HDD & 1 x Hungin DDU, of x 3.3 FWD & 1 x Hungin DDU, of x 3.3 FWD & 1 x Hungin DDU, of x 3.3 FWD & 1 x Hungin DDU, of x 3.3 FWD & 1 x Hungin DDU, of x 3.3 FWD & 1 x Hungin DDU, of x 3.3 FWD & 1 x Hungin DDU, of x 3.3 FWD & 1 x Hungin DDU, of x 3.3 FWD & 1 x Hungin DDU, of x 3.3 FWD & 1 x Hungin DDU, of x 4.3 FWD & 1 x Hun	Display	DP1.2: resolution up to 4096x2304 @ 60Hz		
System Expansion  1 x PCle x16 street (revision 302.0) 1 x M2 M key statePCle 1 x M2 M key statePCle 1 x M2 M key statePCle  Secrify 22W applied line to earth Immunity to conducted distubances induced by radio frequency fields (EM61000-4-6)    System Architecture  Intel® Based commercial motherboard  Power port AC, inc. protective earth via CDN M3 0.15 BOMHz, 10 V/m from modulation) 80% Modulation with 11Hz Simported OS    Supported OS  Windows 10Uinux  Voltage disp, short interrupts and voltages variations immunity tests (EM61000-41) Power port AC, inc. protective earth via CDN M3 0.15 BOMHz, 10 V/m from modulation) 80% Modulation with 11Hz Sime wave, applied via CDN YpeN Voltage disp, short interrupts and voltages variations immunity tests (EM61000-41) Power port AC, inc. protective earth via CDN M3 0.15 BOMHz, 10 V/m from interrupts and voltages variations immunity tests (EM61000-41) Power port AC, inc. protective earth via CDN M3 0.15 BOMHz, 10 V/m from the street is revisited with 11 Hze Sime 2 x USB 2.0 M1.1    External Interfaces  Front. 2 x USB 2.0 M1.1 NovHDD ED5 Revisite 1 x H20 keyboard/mouse combo port(s) 1 x Dubp 1 x LDN keyboard/mouse combo port(s) 1 x LDN keyboa	Storage* <sup>34</sup>	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.		
1 x M.2 M key SubproCe  Immunity to conducted distubances induced by radio frequency fields    System Architecture  Instel® Based commercial motherboard  Power port AC, inc. protective earth via CDN M3    Supported O/S  Windows 10/Linux  Voltage dips, short interrupts and voltages variations immunity tests (Bi61000-4-11) Power port AC is - 59% Reduction, 35 Priods - 39% Reduction, 25 Priods - 2000 Priods - 1 x POV-D Distage variations immunity tests (Bi61000-4-11) Power port AC - 39% Reduction, 25 Priods - 2000 Priods - 1 x POV-D Distage variations induced by radio frequency fields (RM 61000-3-3) - 1 x POV-D Distage variations induced by radio priods - 200 Product Class A Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3) - 1 x POV-D Distage variations induced by radio priods - 200 Product Class A Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3) - 1 x POV-D Distage variations induced by radio priods - 200 Product Class A Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3) - 4 x POV-D Distage variations induced by radio priods - 200 Priods - 2	System Expansion			
System Architecture    Intel® Based commerical motherboard    0.15-80MHz (1) V/m (no modulation) 80% Modulation with 18Hz (Sine wave, applied via CDN type M3      Supported OS    Windows 10/Linux    Viage dps, short interrupts and voltages variations immunity tests (EN61000-4.11) Power port AC (Sine wave, applied via CDN type M3      External Interfaces    Front: 2 x US 82 0/1.1 00/015 witch, Reset NavPHDD LEDS Rear: 1 x 59/2 keyboard/mouse combo port(s) 1 x DV-D 1 x Deplayfort    Test Set (Sine Voltage) for the measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 61000-3-2), Product Class AD Limits for harmonic current measurement (EN 6000-3-2), Product Class AD Limits for harmonic current measurement (EN 6000-3-2), Product Class AD Limits for harmonic current measurement (EN 6000-3-2), Product Class AD Limits for harmonic current measurement (EN 6000-3-2), Product Class AD Limits for harmonic behaviory explorements and and components and able for approximation set approximation set approximation set approximate set approximation set approximate Set approximate set approxim		1 x M.2 M key Sata/PCle		
External Interfaces  Front: 2 x USB 2.0/1.1 OV/Off Switch, Reet New/HDD LEDs  Front: 2 x USB 2.0/1.1 OV/Off Switch, Reet New/HDD LEDs  Front: Switch, Reet New/HDD LEDs  Front: Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 61000-3-2), Product Class A Limits for harmonic current measurement (EN 60050) CE Marked    Mechanical  Design: ELA RS-310C 19* Rackmount Standard Construction 1.2mm SECC Zinc-Coated Steel Security: Lockable front door Coole: Back (custom colours available for large orders) Dimensions: 4380W x 386(W) x 386(W) x 708(W) x 235(W) x 112* x 227* Total drive Color: Back (custom colours available for large orders) Dimensions: 4380W x 386(W) x 386(W) x 386(W) x 112* x 227* Total drive Core prover / voltage / current protection Short circuit protection Short circuit protection Short circuit protection Short circuit prot	System Architecture	Intel® Based commerical motherboard		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 variati ons immunity tests (EN61000-4-11) Power port AC >55% 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 pr ovide many additional
External Interfaces  Front:  2 x US 2 .0/1.1	Supported O/S	Windows 10/Linux		
4 x USB 3.2 Gen 1 Type-A  Safety  Safety of information technology equipment (EN 60950)    2 x USB 2.0  3 x Audio jack(s)  CE Marked    Mechanical  Design: EIA RS-310C 19* Rackmount Standard  Frequency: 47-63Hz    Construction: 1.2mm SEC 2 In-Coated Steel  Input current: 80.14 .0A for 115 / 230 VAC    Security: Lockable front door  Colon: Black (custom colours available for large orders) Dimensions:  Higher rate and Do's 25.2* x 20.7') Packaging Size:    S88(W) x 285(H) x 703(Dimm (9.0* x 52* x 20.7') Packaging Size:  Safety of information technology equipment (EN 60950)    Environmental operation  Acoustic noise: Approximately 49dB(A) sound pressure at 23°C (typical)  Reliability    Environmental operation  Acoustic noise: Approximately 49dB(A) sound pressure at 23°C (typical)  Reliability	External Interfaces	2 x USB 2.0/1.1 Or/Off Switch, Reset Pwr/HDD LEDs Rear: 1 x PS/2 keyboard/mouse combo port(s) 1 x DV-D 1 x DisplayPort 1 x HOMI		
Mechanical  Design: EIA RS-310C 19* Rackmount Standard Construction: 1.2mm SEC 2 Inc-Coated Steel  Electrical Ratings  Voltage: 90 ~ 264 VAC full range Frequency: 47-63Hz Input current: 8.0 / 4.0A for 115 / 230 VAC Inrusk nurmersk nurmersk nurmersk nurmersk nurmersk nurmersk nurmersk nurmer		4 x USB 3.2 Gen 1 Type-A 2 x USB 2.0	Safety	
Temperature: 5 to 45°C (tested for extended operation up to 50°C) provide information for specific configurations). Full burn-in diagnostic run	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 5.2* n x 3.5* external, 4 x 3.5* internal Cooling: 1 x 80mm, 2 x 92mm ball bearing fan Air filter: removeable (washable)	Electrical Ratings	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
	Environmental operation	Temperature: 5 to 45°C (tested for extended operation up to 50°C)	Reliability	

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

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