

Impact Server 4000 Series



Features

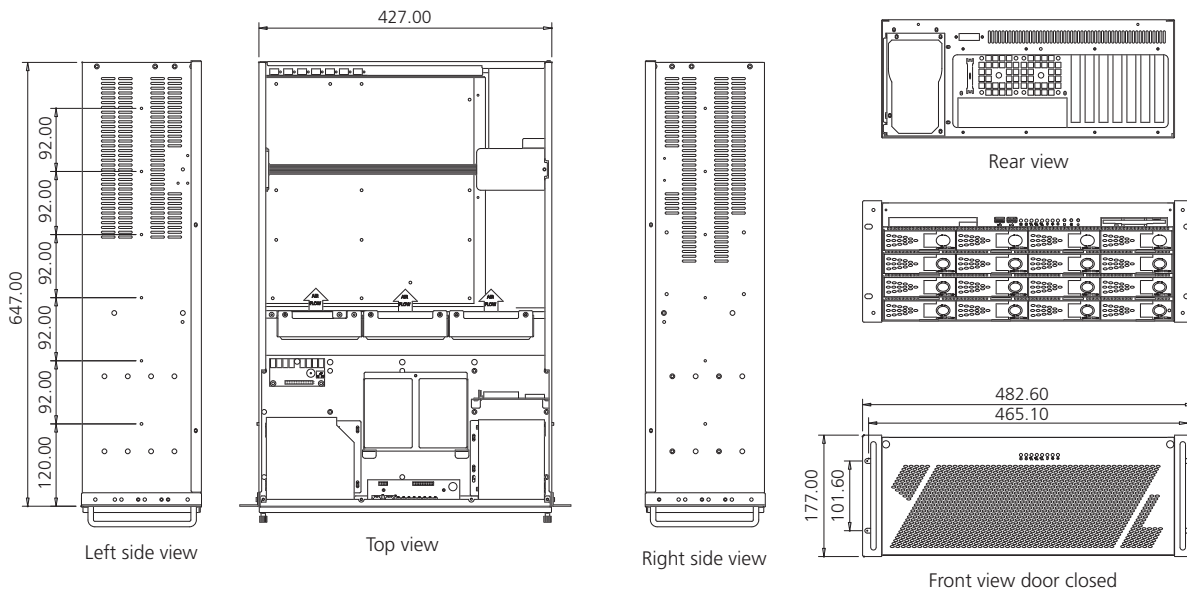
The **Impact Server 4000** is a high-quality and high-reliability storage platform designed for professional IP CCTV and IP surveillance applications. This model provides up to 16TB of storage in 16 removable 3.5" drive bays and has flexible RAID capability.

The Impact Server 4000 was developed in partnership with the technical experts at Milestone - a market-leading IP surveillance software manufacturer - to give you peace of mind that this product will perform in any critical IP surveillance application.

High quality components, single or dual Xeon options, redundant power supply and on-site warranty provide all the options required by OEMs and integrators working in the CCTV market.

With 10 years experience of building high-reliability PC / server systems, Amplicon are also able to custom design server platforms for DVR & NVR applications.

Dimensions



Configuration shown is for illustration purposes only

Sales: +44 (0) 1273 570 220 Admin: +44 (0) 1273 608 331 Fax: +44 (0) 1273 570 215 Website: www.amplicon.co.uk Email: sales@amplicon.co.uk

Impact Server 4000 Series

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	<p>CPU: 2 (or 1) x Quad-Core Intel Xeon 2.0GHz E5405 1333Mhz * Chipset: Intel 5000P Main memory: 2GB 667Mhz Fully Buffered ECC Registered Upgradeable to: 32GB (8 x DIMM's) Video: Built-in Intel Graphics Media Accelerator (16MB) Maximum 2D / 3D resolution: 1600 x 1200 16.7M Colours LAN: Dual Intel Gigabit Ethernet connections (Intel 82563EB) SATA (Non-RAID): 6 x SATA II (3.0Gb/s) channels Slim DVDRW * optional CPU: 2 (or 1) x Dual-Core Intel Xeon 2.0GHz 5130 1333MHz</p>	Electromagnetic compatibility (EMC)	<p>EN55022 Class A EN55024 Industrial severity (where applicable) Additional Levels & tests to EN50121-4 Railway Applications</p> <p>Electrostatic discharge immunity test (EN61000-4-2) ±6kV Contact, applied to enclosure port ±8kV Air, applied to enclosure port ±6kV Indirect, applied to coupling plane</p> <p>Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3) 80-1000MHz, 20 V/m (RMS, no modulation) 80% Modulation with 1kHz Sine wave 900MHz, 20V/m (RMS, no modulation) pulse mod 50% duty, 200Hz rep</p> <p>Electrical fast transient/burst immunity test (EN61000-4-4) Power port ac, inc. protective earth Severity ±2kV</p> <p>Surge Immunity test (EN61000-4-5) Power port ac Severity ±2kV applied line to line Severity ±2kV applied line to earth</p> <p>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</p> <p>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</p> <p>Power - frequency magnetic field (EN 61000-4-8) 50Hz, 16.7Hz, 0Hz 100 A/m (rms)</p> <p>Limits for harmonic current measurement (EN 61000-3-2), Product Class A</p> <p>Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3)</p> <p>Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements.</p>
System options	<p>Impact-S 4108: 4U system with 1 CPU, supports up to 8 configured HDDs Impact-S 4208: 4U system with 2 CPU, supports up to 8 configured HDDs Impact-S 4116: 4U system with 1 CPU, supports up to 16 configured HDDs Impact-S 4216: 4U system with 2 CPU, supports up to 16 configured HDDs Windows XP partition size limited to 2TB</p>		
RAID specification	<p>High performance PCIe controller 8-lane PCIe host interface 16 ports support up to 16 SATA and SAS drives SATA II (3.0Gb/s) channels Native Command Queuing (NCQ) support RAID levels 0, 1, 1E, 5, 5EE, 6, 10, 50, 60, JBOD Copyback Hot Spare and optional Snapshot Backup LED header for drive activity and failure indication We can also provide solutions incorporating ultra-high performance Western Digital Raptor SATA and Serial Attached SCSI (SAS) hard drives</p>		
Disk capacity	<p>16 x Western Digital RAID Edition 2 SATA II HDD 7200rpm Typically supplied configured as RAID 0, 5 or 6 (other RAID levels supported) Maximum storage of 16 TB using 1TB HDDs Operating system can be installed on the array, a dedicated HDD or a mirrored pair of HDD's for redundancy</p> <p>Usable storage capacity will be less due to industry drive specifications.</p>		
Hardware monitor	<p>Independent thermal and fan speed monitoring hardware</p>		
System expansion	<p>2 x PCI Express x8 (1 x taken by SATA controller) 2 x PCI Express x4 (x8 connectors) 1 x PCI-X 100 / 133 MHz 1 x PCI-X 100 MHz</p>		
System architecture	<p>Intel server motherboard</p>		
Supported OS (Operating System)	<p>Windows XP, Linux Red Hat, Windows 2003 Server, Windows 2000 (available via Windows XP Pro downgrade rights)</p> <p>If your desired operating system is not listed, please contact us</p>	Safety	<p>Safety of information technology equipment (EN 60950) CE Marked</p>
LEDs and switches	<p>Front: Power (PC ON) LED Hard disk access LED LAN activity x 2 Drive caddy HDD activity and power LED x 16 System monitor x 2 LED and single alarm reset switch ATX system control switch, system reset</p> <p>Rear: System ON/OFF power switch x 3 (x 1 per module)</p>	Electrical Ratings	<p>Industrial N+1 redundant design power supply Voltage: 90 ~ 264 VAC full range Frequency: 47 ~ 63Hz Inrush current: 40A / 60A (115 / 230VAC) PSU maximum secondary loading: 800W Active PFC EMI noise filter Over power/voltage/current protection Short circuit protection</p>
External interfaces	<p>Mini-DIN-6 PS/2 mouse port x 1 Mini-DIN-6 PS/2 keyboard port x 1 DB-15 VGA port x 1 USB 2.0/1.1 ports x 6 (4 rear, 2 front) RJ45 LAN port x 2</p>	Reliability	<p>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</p>
Mechanical	<p>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 177 (H) x 650 (D) mm (19.0" x 7.0" x 25.6") Packaging size: 854 (W) x 336 (H) x 576 (D) mm (33.6" x 13.2" x 22.7") Total drive capacity: 1 x Slim CDROM, 2 x 3.5" internal, 1 x 3.5" Slim FDD, 16 x 3.5" hot-swap 3.5" SATA bays Cooling : Industrial fans 3 x 120mm (90 CFM each) mid-chassis, 2 x 60mm (23.5CFM) rear Gross weight: approximately 40kg (fully populated)</p>		
Environmental operational	<p>Acoustic noise: Approximately 60dBA sound pressure at 23°C (typical) Temperature: 0 to 45°C (tested for extended operation up to 50°C) Humidity: 5 to 90% at 25°C non-condensing</p>		
Environmental storage	<p>Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing</p>		02-02-09

Sales: +44 (0) 1273 570 220 Admin: +44 (0) 1273 608 331 Fax: +44 (0) 1273 570 215 Website: www.amplicon.co.uk Email: sales@amplicon.co.uk