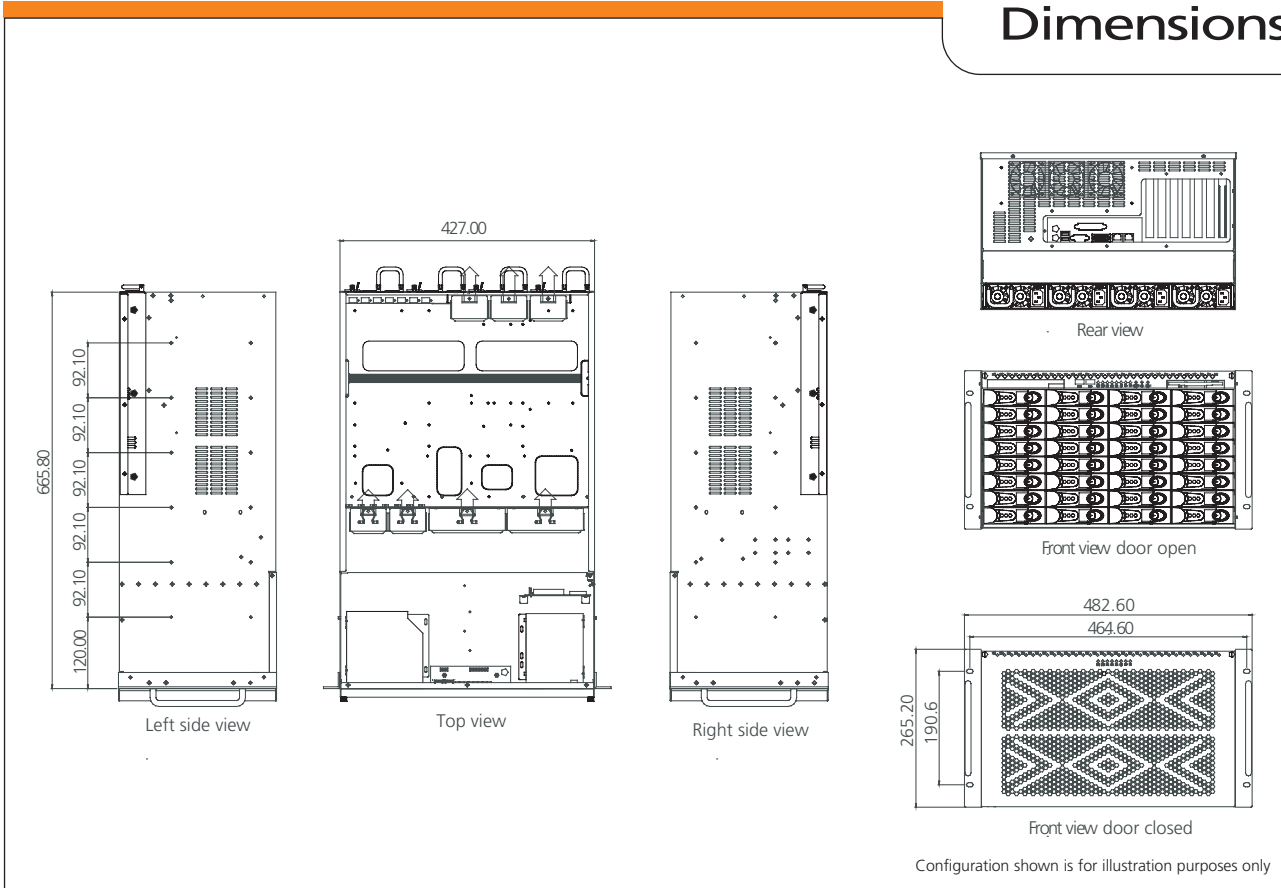# Impact Server 6000 Series

Features

The **Impact Server 6000** is a high-quality and high-reliability storage platform designed for professional IP CCTV and IP surveillance applications. This model provides up to 64TB of storage in 32 removable 3.5" drive bays and has flexible RAID capability.

The Impact Server 6000 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

Left side view

Top view

Right side view

Rear view

Front view door open

Front view door closed

Configuration shown is for illustration purposes only

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Impact Server 6000

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: 2 x Intel Quad Core Xeon 2.4GHz E5620 Chipset: Intel® 5520 Chipset Main memory: 3GB DDR3 Upgradeable to 192GB DDR3 ECC Registered Memory Video: Integrated Matrox G200eW Graphics LAN: Intel® 82576 Dual-Port Gigabit Ethernet with IPMI 2.0 SATA (Non-RAID): 6 x SATA II Slim DVDROM
System Options	Impact-S 6116 : 6U System with 1 CPU, supports up to 16 configured HDDs Impact-S 6216 : 6U System with 2 CPU, supports up to 16 configured HDDs Impact-S 6132 : 6U System with 1 CPU, supports up to 32 configured HDDs Impact-S 6232 : 6U System with 2 CPU, supports up to 32 configured HDDs Windows XP partition size limited to 2TB
RAID specification	RAID levels 0, 1, 1E, 5, 5EE, 6, 10, 50 and 60 Dynamic caching algorithm Native Command Queuing (NCQ) Background initialization Hot spares – global, dedicated, and pooled Automatic/manual rebuild of hot spares Dynamic sector repair
Disk capacity	32 x SATA II/SAS HDD Typically supplied configured as RAID 0, 5 or 6 (other RAID levels supported) Maximum storage 64TB using 2TB HDDs Operating system can be installed on the array, a dedicated HDD or a mirrored pair of HDDs for redundancy Usable storage capacity will be less due to industry drive specifications.
Hardware monitor	Independant thermal and fan speed monitoring hardware
System expansion	1 x PCIe x16 1 x PCIe x8 2 x PCI 33MHz 32Bit
System architecture	Intel Chipset Xeon Server Board
Supported OS (Operating System)	Windows Server 2003, 2008 32/64Bit Windows XP Pro, Vista, 7 32/64Bit Extensive Linux Support, please call for specific version compatibility
LEDs and switches	Front: Power (PC ON) LED Hard disk access LED LAN activity x 2 Drive caddy HDD activity and power LED x 32 System monitor x 2 LED and single alarm reset switch ATX system control switch, system reset Rear: System ON/OFF power switch x 3 (x 1 per module)
External interfaces	Mini-DIN-6 PS/2 mouse port x 1 Mini-DIN-6 PS/2 keyboard port x 1 DE-15 VGA port x 1 USB 2.0/1.1 ports x 4 (2 rear, 2 front) RJ45 LAN port x 2 RS 232 (DE-9) COM Port x 1
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 265 (H) x 666 (D) mm (19.0" x 10.4" x 26.2") Packaging size: 855 (W) x 418 (H) x 610 (D) mm (33.7" x 16.5" x 24.0") Total drive capacity: 1 x Slim DVDROM, 2 x 2.5" internal, 1 x 2.5" Slim FDD, 32 x 3.5" hot-swap SATA/SAS bays Cooling : Industrial hot-swap fans 2 x 120mm (90 CFM each) + 2 x 60mm (23.5 CFM each) mid-chassis, 3 x 60mm (23.5CFM) rear Gross weight: approximately 70kg (fully populated)
Environmental operational	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
Environmental storage	Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing

Electromagnetic compatibility (EMC)	EN55022 Class A 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% Modulation with 1kHz Sine wave Electrical fast transient/burst immunity test (EN61000-4-4) Power port AC, inc. protective earth Severity ±1kV Surge Immunity test (EN61000-4-5) Power port AC Severity ±1kV applied line to line Severity ±2kV applied line to earth 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 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 Voltage dips, short interrupts and voltages variations immunity tests (EN61000-6-2) Power port AC >30% Reduction, 0.5 Periods >60% Reduction, 25 Periods >100% Reduction, 250 Periods Limits for harmonic current measurement (EN 61000-3-2), Product Class D Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3) Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements.
Safety	Safety of information technology equipment (EN 60950) CE Marked
Electrical Ratings	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