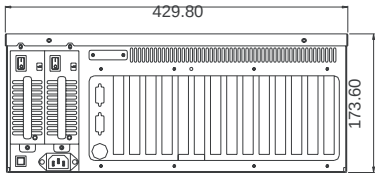
Ventrix 4030/31 PICMG 1.3

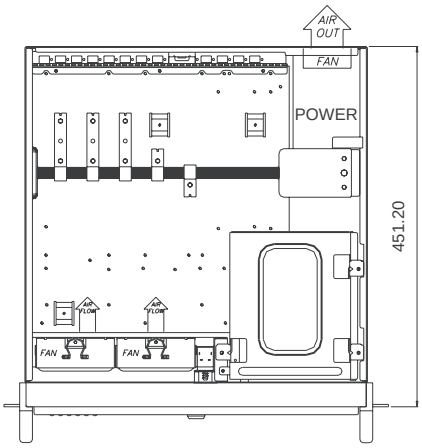
Features

- Intel® i5/i7 Processor with Hyper-threading and Turboboost
- Supports Intel AMT 7.0, RAID 0,1,5,10, TPM
- 3 year warranty, first year onsite (UK ONLY)
- Custom colours and OEM branding service available
- Constructed from roadmapped industrial components
- Designed for mission critical 24/7 applications
- Assembled and tested within a lean manufacturing environment under ISO 9001

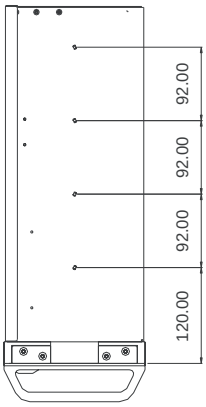
Dimensions



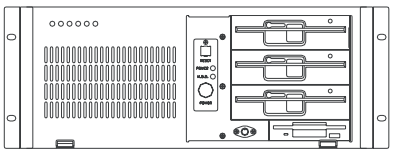
Rear view



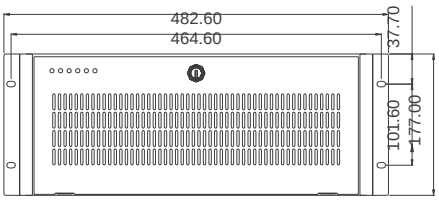
Top View



Right-side View



Front in-side view



Front out-side view

Configuration shown is for illustration purposes only

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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	Processors incorporated into each model: Ventrix 4030-E5.7, E2.10 – Intel® Core™ i5-2400 3.1 GHz, 6M Cache Ventrix 4031-E5.7, E2.10 – Intel® Core™ i7-2600 3.4 GHz, 8M Cache Chipset: Intel® Q67 Express Chipset Main memory: 2GB DDR3 1066/1333MHz dual channel (max 16GB*) Video: Integrated Intel® HD Graphics Display Resolution: Resolutions up to 2048 x 1536 @ 75 Hz LAN: 2 ports at 10/100/1000Mbps, support for WoL, PXE Boot ROM, iAMT 7.0 with Intel® 82579LM, 2nd port Intel® 82574L Watchdog Timer: 1-255 sec or 1-255 min TPM: Infineon SLB 9635 TT 1.2 *Usable memory capacity may be limited by the operating system
BIOS	BIOS AMIBIOS 64Mb SPI BIOS
Storage	250GB SATA HDD 7200rpm DVDRW Total drive capacity: 3 x 5.25" + 1 x 3.5" floppy disk drive / HDD We can provide storage and backup solutions for any application
System expansion	**-E5.7 Version** - 7 PCI slots (3 x full length, 4 x 180mm length), 4 x PCIe X1 slots (3 x full lenght, 1 x 180mm Low Profile) and 1 x PCI Express X 16 slot (full length)* for graphics card only **-E2.10 Version** – 10 PCI Slots (6 x full length, 4 x 180mm length), 1 x PCI Express x 4 (full lenght), 1 x PCI Express x 16 slot (full length)* for graphics card only Additional slots can be made available by reducing I/O ports, such as serial, parallel and USB.
System architecture	Full-sized SBC with PCIe / PCI golden finger PICMG 1.3 Compliant PCI V2.2 Compliant
Supported OS (Operating System)	Windows XP, Windows 7 32/64 Bit, Windows Server 2008 and Linux. If your desired operating system is not listed or you wish to check support for a specific version of Linux, please contact us.
Internal interfaces	Serial ATA: 2x SATA 6 Gb/s ports, 4x SATA 3 Gb/s ports, supports RAID 0/1/5/10 USB: 8 x USB 2.0 ports KB/MS 1x internal pin header for PS/2 keyboard/mouse* Serial Ports: 5x RS-232, 1x RS-232/422/485* *Available via rear breakout
LEDs and switches	Power (PC ON) LED Hard disk access LED Front: ATX system control switch, system reset
External interfaces	Front USB: 2 ports Front keyboard: Mini-DIN for (keyboard only) Rear USB: 2 x USB 3.0 ports on faceplate Serial: COM 1~6 available via brackets* (9 pin D-Type) VGA: DB-15 connector x 1 LAN: RJ45 Ethernet x 2 *Please discuss your port configuration requirements
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 177(H) x 451(D) mm (19" x 7" x 17.8") Packaging size: 590(W) x 340(H) x 618(D) mm (23.2" x 13.4" x 24.3") Cooling: 2 x 92mm fan, 51 CFM each Air filter: removable (washable) Gross weight: approximately 19kg

Environmental operational	Vibration: 5 to 9Hz - 0.3 to 1G ramped, 9 to 500Hz 1G (in acc with 60068-2-6) Shock: 10G 1/2 sine 11ms (in acc with 60068-2-27) Acoustic noise: 45dBA sound pressure at 23°C (typical) 48dBA (peak)* Temperature: 0 to 45°C (tested for extended operation up to 50°C) Humidity: 5 to 90% at 25°C non-condensing Low noise fan options are available (maximum operating temperature 35°C) We can design systems to meet additional environmental requirements * Thermally controlled system fans run at peak operating speed during system start up. Speed is reduced based system temperature.
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 ±2kV Surge Immunity test (EN61000-4-5) Power port AC Severity ±2kV 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	Voltage: 90 ~ 264 VAC full range Frequency: 47~63Hz Input current: 8.0 / 4.0A for 115 / 230 VAC Inrush current: 65A / 125A max Typical operational current: : 0.5 ~1A (base system) PSU maximum secondary loading: 460W* Active PFC EMI noise filter Over power / voltage / current protection Short circuit protection Higher rated and DC power supplies options are available. We recommend that you discuss your power requirements before placing your order
Reliability	System MTBF: >25,000 hrs @ 25°C Diagnostic burn-in run on every system

Model	PCIe slots	PCI slots	Processor
Ventrix 4030-E5.7	4	7	Intel Core i5 2400, 3.1GHz
Ventrix 4031-E5.7	4	7	Intel Core i7 2600, 3.4GHz
Ventrix 4030-E2.10	2	10	Intel Core i5 2400, 3.4GHz
Ventrix 4031-E2.10	2	10	Intel Core i7 2600, 3.4GHz

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