

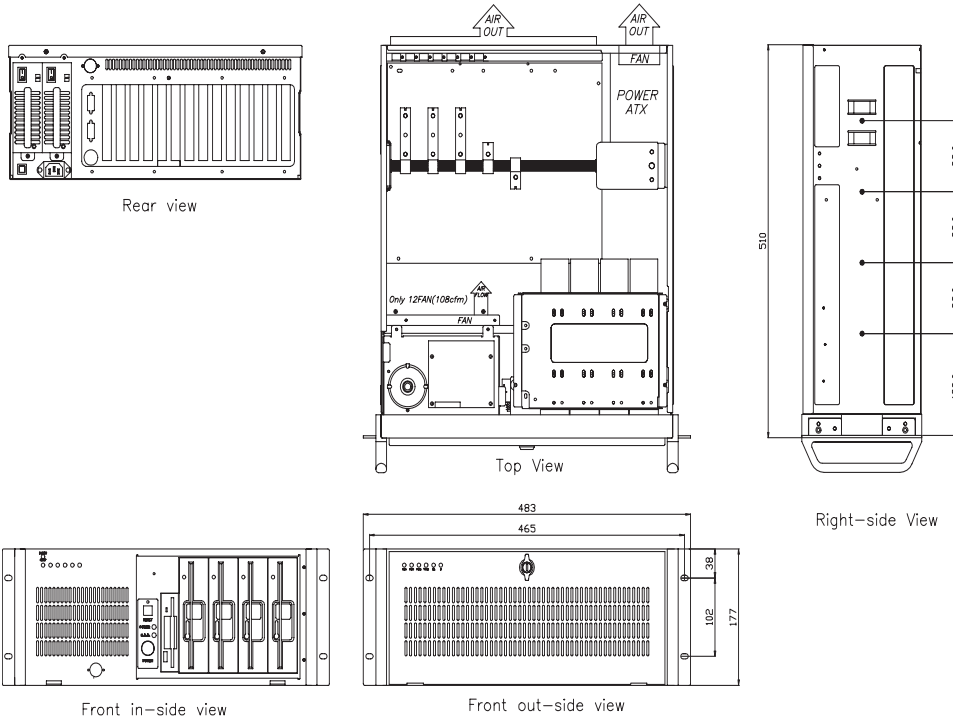
# Ventrix 4007/8/9 PICMG 1.0



## Features

- 3 year warranty, first year onsite (UK Customers Only)
- Custom colours and OEM branding service available
- PICMG 1.0 backplanes offer excellent PCI and ISA expansion
- Constructed from roadmapped industrial components
- Designed for mission critical 24/7 applications
- Assembled and tested within a lean manufacturing environment under ISO 9001

## 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.com](http://www.amplicon.com) Email: [sales@amplicon.com](mailto:sales@amplicon.com)

## Ventrix 4007/8/9 PICMG 1.0

### 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.

<b>Hardware specification</b>	Processors incorporated into each model: Ventrix 4007-P4.8, 4007-P12.2 Intel Celeron Dual Core E1500 LGA775, 2.20GHz, 800MHz, 512KB cache Ventrix 4008-P4.8, 4008-P12.2 Intel Core 2 Duo E7400 LGA775, 2.80GHz, 1066MHz, 3MB cache Ventrix 4009-P4.8, 4009-P12.2 Intel Core 2 Quad Q9400 LGA775, 2.66GHz, 1333MHz, 6MB cache Chipset: Intel Chipset: Intel G41+ICH7 Main memory: 2GB DDR3 1333MHz, dual channel (maximum 4GB*) Video: Intel G41 GMCH integrated graphic engine Display Resolution: VGA up to 2048 x 1536 @ 75Hz with 32-bit colour LAN: 2 ports as 10/100/1000Mbps support Wake-on -LAN, PXE Boot ROM with Intel 82574L Watchdog timer: 255 levels, 1-255 seconds Hardware Monitor: CPU temperature, system temperature, power failure and fan speed * Usable memory capacity may be limited by the operating system.	<b>Environmental storage</b>	Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing
<b>BIOS</b>	Award BIOS	<b>Electromagnetic compatibility (EMC)</b>	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.
<b>Storage</b>	SATA HDD 7200rpm DVDRW Total drive capacity: 4 x 5.25" + 1 x 3.5" floppy disk drive We can provide storage and backup solutions for any application	<b>Safety</b>	Safety of information technology equipment (EN 60950) CE Marked
<b>System expansion</b>	Ventrix 4007 / 4008 / 4009-P4.8 - 4 PCI (full length) and 6 ISA slots (250mm length) Ventrix 4007 / 4008 / 4009-P12.2 - 10 PCI (7 x 250mm length, 3 full length)  Additional slots can be made available by reducing I/O ports, such as serial, parallel and USB.	<b>Electrical ratings</b>	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 Typical Power 150W (unexpanded) Active PFC EMI noise filter Over power / voltage / current protection Short circuit protection  Higher rated and DC power supply options are available. We recommend that you discuss your power requirements before placing your order
<b>System architecture</b>	Full-sized SBC with PCI / ISA golden finger PICMG 1.0 (Rev 2.0) Compliant PCI V2.2 Compliant	<b>Reliability</b>	System MTBF: >25,000 hrs @ 25°C Diagnostic burn-in run on every system
<b>Supported OS (Operating System)</b>	Windows XP, Windows 2000SP4, Windows Vista, Windows 7 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.		
<b>Internal interfaces</b>	USB 2.0: 6 ports, through 1x6 JST Serial port: 2 ports, with 2x5 box header (2.0mm), supports RS232 only Parallel port: 1 port, with 2x13 box-header (2.0mm) PS2: 1 x 6-pin JST connector (2.0mm) for KB/Mouse Fan: 4-pin wafer for CPU; 3-pin wafer for System; 3-pin wafer for MCH 2-pin header for SMB; 2-pin header for reset; 2-pin header for power on switch 2-pin header for power LED; 2-pin header for HDD LED 1 x IDE with 40-pin header 1 x Floppy with 34 pin header		
<b>LEDs and switches</b>	Power (PC ON) LED Hard disk access LED Front: ATX system control switch system reset		
<b>External interfaces</b>	1 x DB15 VGA connector 2 x RJ45 GbE port 1 x PS2 4 x USB (2 x Front, 2 x Rear) 2 x DB9 COM Ports 1 x Parallel		
<b>Mechanical</b>	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 510(D) mm (19" x 7" x 20.1") Packaging size: 600(W) x 345(H) x 690(D) mm (23.6" x 13.6" x 27.2") Cooling: 1 x 120mm fan, 108 CFM Air filter: removable (washable) Gross weight: approximately 20kg		
<b>Environmental operational</b>	Vibration: 0.25g sine sweep @ 1 octave per minute from: 10 to 500Hz (longitudinal)* Shock: 10G 1/2 sine 11ms*  * Higher levels are achievable by use of an SSD, or ruggedized hard drive.  Acoustic noise: 49dB(A) sound pressure at 23°C (typical) Temperature: 5 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 requirements		

Model	PCI slots	ISA slots	Processor
Ventrix 4007-P4.8	4	6	Intel Celeron Dual Core E1500, 2.20GHz
Ventrix 4007-P12.2	10	0	Intel Celeron Dual Core E1500, 2.20GHz
Ventrix 4008-P4.8	4	6	Intel Core 2 Duo E7400, 2.80GHz
Ventrix 4008-P12.2	10	0	Intel Core 2 Duo E7400, 2.80GHz
Ventrix 4009-P4.8	4	6	Intel Core 2 Quad Q9400, 2.66GHz
Ventrix 4009-P12.2	10	0	Intel Core 2 Quad Q9400, 2.66GHz

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