

Ventrix 4004



Features

The **Ventrix 4004** provides PCI Express expansion powered by an Intel Core 2 Duo processor. Utilising the latest PICMG 1.3 technology, this system is ideal for high speed data / video capture and analysis.

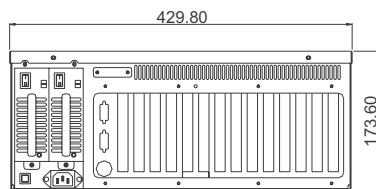
Manufactured from selected high quality industrial components, the Ventrix 4004 will provide a fast stable platform which will be available for a minimum of 5 years.

Our production processes are controlled under ISO 9001:2000 and every system undergoes a full diagnostic burn-in prior to shipment.

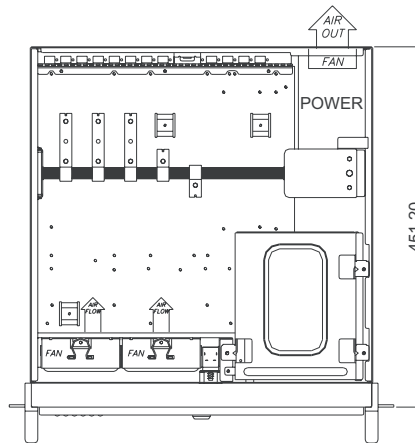
Systems can be tailored to meet your exact requirements.

Each system comes with a 3 year warranty, with first year onsite as standard.

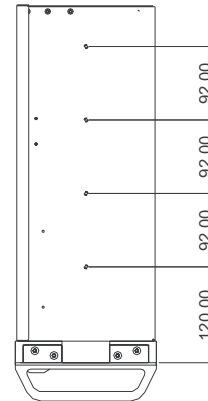
Dimensions



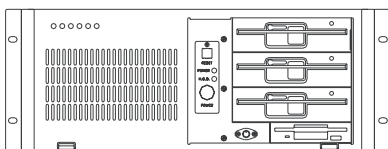
Rear view



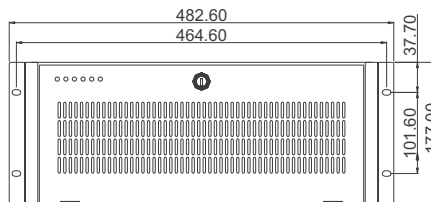
Top View



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	<p>CPU: Intel Core 2 Duo E6420, 2.13GHz, 1066MHz, 4MB cache Main memory: 1GB DDR2 667MHz, dual channel Upgradeable to: 4GB Chipset: Intel Q965 + ICH8R chipset, supports RAID 0,1,5,10 (via backplane) function Video: Integrated Intel GMA 3000 Graphics LAN: Dual Marvell 88E8053 PCI ExpressTM Gigabit Ethernet controllers RTC: On chip with battery backup Watchdog timer: Programmable by SW: 1 sec.-255 min. and 1 sec. or 1 min./step IO Chip: ITE 81T8718F IO Controller Display Resolution: Analog display : up to 2048 x 1536 @ 75Hz (QXGA) Flat Panels : up to 2048 x 1536 @ 60 Hz</p>	Electromagnetic compatibility (EMC)	<p>EN55022 Class A EN55024 Industrial severity (where applicable)</p>
BIOS	<p>AMI BIOS, 8Mb Flash EEPROM Plug & Play support Advanced Power Management and Advanced Configuration & Power Interface Support</p>	Electrostatic discharge immunity test (EN61000-4-2)	<p>±4kV Contact, applied to enclosure port ±8kV Air, applied to enclosure port ±4kV Indirect, applied to coupling plane</p>
Storage	<p>250GB SATA RAID Edition HDD 7200rpm DVDRW Total drive capacity: 3 x 5.25" + 1 x 3.5" FDD / HDD</p> <p>We can provide storage and backup solutions for any application</p>	Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3)	<p>80-1000MHz, 10 V/m (RMS, no modulation) 80% Modulation with 1kHz Sine wave</p>
System expansion	<p>7 PCI slots (3 x full length, 4 x 180mm length), 4 x PCI Express X 1 slots (3 x full length, 1 x 180mm Low Profile) and 1 x PCI Express X 16 slot (full length) for graphics card only</p> <p>Additional slots may be freed up by not fitting single board computer I/O brackets</p>	Electrical fast transient/burst immunity test (EN61000-4-4)	<p>Power port ac, inc. protective earth Severity ±2kV</p>
System architecture	<p>Full-sized SBC with PCI / ISA golden finger PICMG 1.3 Compliant PCI V2.2 Compliant</p>	Surge Immunity test (EN61000-4-5)	<p>Power port ac Severity ±2kV applied line to line Severity ±2kV applied line to earth</p>
Supported OS (Operating System)	<p>Windows Vista, Windows XP, Windows 2000 (available via Windows XP Pro downgrade rights)</p> <p>If your desired operating system is not listed, please contact us.</p>	Immunity to conducted disturbances induced by radio frequency fields (EN61000-4-6)	<p>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>
Internal interfaces	<p>SATA HDD: Serial ATA Ports, bandwidth 300 MB/s x 4 IDE HDD: Ultra ATA100/66/33, 40 pin connector x 1 Floppy: 34-pin connector x 1 USB: On board USB port x 2, USB 2.0 compliant Serial port: 10-pin header x 3 (RS232), 14-pin header x 1 (RS232/422/485) Mouse: Mini-DIN PS/2 x 1 Keyboard: Mini-DIN PS/2 x 1 Digital I/O Port: 4 in and 4 out with TTL level interface x 1 On board buzzer x 1 4-pin for speaker x 1 2-pin header for SMBus 2.0 x 1 IrDA: On board 5 pin header x 1</p>	Voltage dips, short interrupts and voltages variations immunity tests (EN61000-4-11)	<p>Power port ac >95% Reduction, 0.5 Periods >30% Reduction, 25 Periods >95% Reduction, 250 Periods</p>
LEDs and switches	<p>Power (PC ON) LED Hard disk access LED Front: ATX system control switch, system reset Rear: System ON/OFF power switch</p>	Voltage dips, short interrupts and voltages variations immunity tests (EN61000-6-2)	<p>Power port ac >30% Reduction, 0.5 Periods >60% Reduction, 25 Periods >100% Reduction, 250 Periods</p>
External interfaces	<p>USB: Front x 2, Rear x 2 Serial: COM1 and COM2 VGA: DB-15 connector x 1 Front keyboard: Mini-DIN for keyboard only x 1 LAN: RJ45 Ethernet x 2</p>	Limits for harmonic current measurement (EN 61000-3-2), Product Class D	<p>Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3)</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 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</p>	Safety of information technology equipment (EN 60950)	<p>CE Marked</p>
Environmental operational	<p>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) Temperature: 0 to 45°C (tested for extended operation up to 50°C) Humidity: 5 to 90% at 25°C non-condensing</p> <p>Please contact us to discuss extended or harsher environmental specifications</p>	Electrical ratings	<p>Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3)</p>
Environmental storage	<p>Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing</p>	Electrical ratings	<p>Voltage: 90 ~ 264 VAC full range Frequency: 47~63Hz Input current: 10.0 / 5.0A for 115 / 230 VAC Inrush current: 80A max PSU maximum secondary loading: 460W* Active PFC EMI noise filter Over power / voltage / current protection Short circuit protection</p> <p>*Higher rated power supplies are available and we recommend that you discuss your power requirements before placing your order</p>
		Electrical ratings	<p>Voltage: 90 ~ 264 VAC full range Frequency: 47 ~ 63Hz Input current: 9.0 / 4.5A for 115 / 230 VAC Inrush current: 65A / 120A max for 115 / 230 VAC per module PSU maximum secondary loading: 500W* Active PFC Power factor >0.96 at full load Over power / voltage / current protection Short circuit protection Hot-swappable / hot-pluggable Balance load sharing design AC inlet in each module</p> <p>*Higher rated power supplies are available and we recommend that you discuss your power requirements before placing your order</p>
		Reliability	<p>System MTBF: >15,000 hrs (we can provide information for specific configurations) Four hour burn-in diagnostic run on every system</p>

14-07-08

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