

Ventrix 4002



Features

The **Ventrix series** utilises an industrial single board computer and backplane architecture to provide excellent expansion capabilities, easy upgrades, reliability and repeatability.

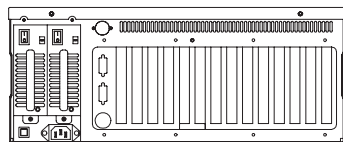
Manufactured from selected high quality industrial components, the Ventrix 4000 series is ideal for harsh environments and critical 24/7 operation.

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

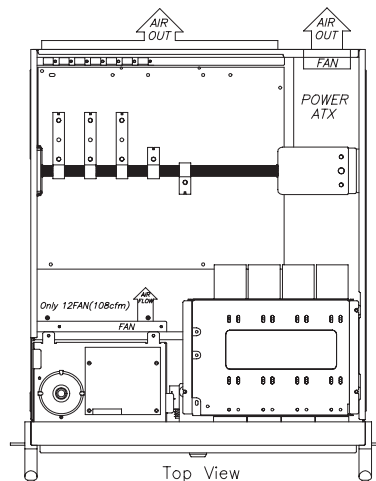
Systems can be tailored to meet your exact requirements.

Each system comes with a 3 year warranty, with the first year on-site as standard.

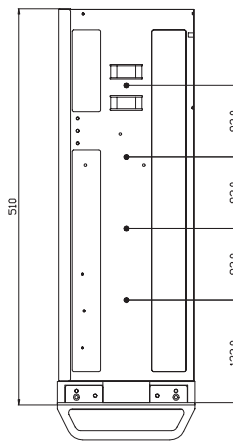
Dimensions



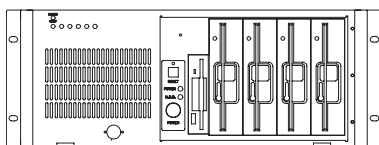
Rear view



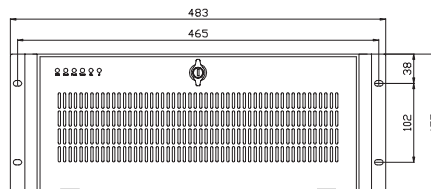
Top View



Right-side View



Front in-side view



Front out-side view

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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	CPU: Intel Pentium 4 3.0GHz 800MHz FSB 1MB cache Main memory: 1GB DDR400, dual channel Upgradeable to: 2GB Chipset: Intel 865GV + ICH5 chipset Video: Shared integrated graphics controller from chipset LAN: Intel 82551QM 10 / 100 Ethernet System monitor controller: From Super IO RTC: On chip with battery backup Watchdog timer: Programmable by software from 1, 2, 4, 8, 16, 32,128 seconds ISAMAX support: ITE 8888F x 1 PCI to ISA Bridge Serial I/O: 16C550 UARTs	Environmental storage	Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing
BIOS	Award System BIOS Plug & Play support Advanced Power Management	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.
Storage	80GB IDE HDD 7200rpm DVDRW Total drive capacity: 4 x 5.25" + 1 x 3.5" FDD / HDD We can provide storage and backup solutions for any application	Safety	Safety of information technology equipment (EN 60950) CE Marked
System expansion	Ventrix 4002: 4 PCI (full length) and 6 ISA slots (250mm length) Ventrix 4002-P12.2: 10 PCI (7 x 250mm length, 3 full length) Ventrix 4002-P7.6: 7 PCI (4 x full length, 3 x 250mm length) and 4 ISA slots (2 x full length, 2 x 250mm length) Additional slots may be freed up by not fitting single board computer I/O brackets	Electrical ratings	Voltage: 115 ~ 230 VAC full range Frequency: 50 ~ 60Hz Input current: 10.0 / 5.0A for 115 / 230 VAC Inrush current: 50 / 100A max for 115 / 230 VAC PSU maximum secondary loading: 460W* Active PFC Power factor >0.96 at full load Over power / voltage / current protection Short circuit protection *Higher rated power supplies are available and we recommend that you discuss your power requirements before placing your order
System architecture	Full-sized SBC with PCI / ISA golden finger PICMG 1.0 Compliant PCI V2.2 Compliant	Electrical ratings Dual redundant option	Voltage: 90 ~ 264 VAC full range Frequency: 47 ~ 63Hz Input current: 8.0 / 4.0A for 115 / 230 VAC Inrush current: 60A / 80A max for 115 / 230 VAC per module PSU maximum secondary loading: 400W* 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 *Higher rated power supplies are available and we recommend that you discuss your power requirements before placing your order
Supported OS (Operating System)	Windows XP, Windows 2000 (available via Windows XP Pro downgrade rights) If your desired operating system is not listed, please contact us.	Reliability	System MTBF: >15,000 hrs (we can provide information for specific configurations) Four hour burn-in diagnostic run on every system
Internal interfaces	SATA HDD: Serial ATA Ports, bandwidth 150 MB/s x 4 IDE HDD: Ultra ATA100 / 66 / 33, 40 pin connector x 2 Floppy: 34-pin connector x 1 USB: On board USB port x 2, USB 2.0 compliant Serial port: 10 pin header x 2 Parallel port: Bi-directional, EPP / ECP support, 26 pin connector x 1 Mouse / keyboard: Mini-DIN PS/2 x 1 Disk on module: 2-pin power connector for IDE DOM 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		
LEDs and switches	Power (PC ON) LED Hard disk access LED Front: ATX system control switch, system reset Rear: System ON/OFF power switch		
External interfaces	USB: Front x 2 Serial: COM1 and COM2 Parallel: LPT1 (EPP / ECP) VGA: DB-15 connector x 1 Rear keyboard / mouse: Mini-DIN for keyboard / mouse x 1 Front keyboard: Mini-DIN for keyboard only x 1 LAN: RJ45 Ethernet 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: 480(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		
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: 49dBA 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 Please contact us to discuss extended or harsher environmental specifications		

14-07-08

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