

# Ventrix 515



## Features

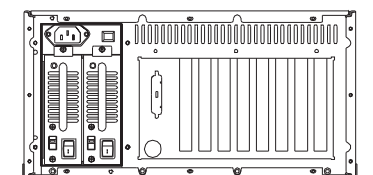
The **Ventrix 510 series** utilises an industrial single board computer and backplane architecture to provide excellent expansion capabilities, easy upgrades, reliability and repeatability. The **Ventrix 515** uses PICMG 1.0 technology, and is powered by an Intel Core 2 Duo processor.

These models are ideally suited to desktop applications when industrial performance is desired. Additionally these models can be wall mounted by the brackets supplied.

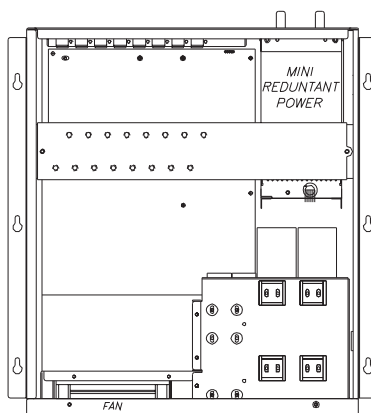
Our production processes are controlled under ISO 9001:2000 and every system undergoes a full diagnostic burn-in prior to shipment.

Systems can be tailored to meet your exact requirements. Each system comes with a 3 year warranty, with the first year onsite as standard.

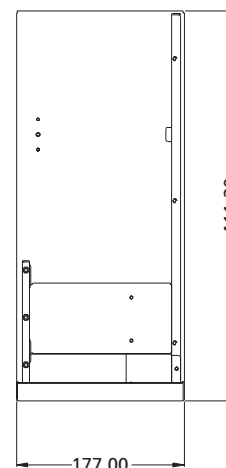
## Dimensions



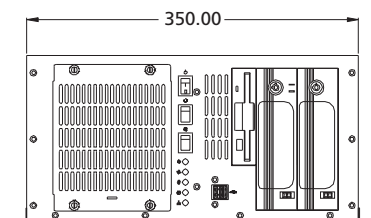
Rear View



Top View



Side View



Front View

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# Ventrix 515

## 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 Core 2 Duo E6420, 2.13GHz, 1066MHz, 4MB cache<br>Main memory: 1GB DDR2 667MHz, dual channel<br>Upgradeable to: 4GB<br>Chipset: Intel Q965 + ICH8DO chipset, supports RAID 0, 1, 5, 10 function<br>Video: Integrated Intel GMA 3000 Graphics<br>LAN: Dual Marvell 88E8053 PCI Express™ Gigabit Ethernet controllers<br>RTC: On chip with battery backup<br>Watchdog timer: Programmable by SW: 1 sec.–255 min. and 1 sec. or 1 min./step<br>IO Chip: ITE 81T8718F I/O Controller<br>Display Resolution: Analog display : up to 2048 x 1536 @ 75Hz (QXGA)<br>Flat Panels : up to 2048 x 1536 @ 60 Hz | Environmental storage                       | Temperature: -20 to 65°C<br>Humidity: 5 to 90% at 25°C non-condensing  |
| BIOS                            | AMI BIOS, 8Mb Flash EEPROM<br>Plug & Play support<br>Advanced Power Management & Advanced Configuration & Power Interface Support   | Electromagnetic compatibility (EMC)         | EN55022 Class A<br>EN55024 Industrial severity (where applicable)<br><br>Electrostatic discharge immunity test (EN61000-4-2)<br>±4kV Contact, applied to enclosure port<br>±8kV Air, applied to enclosure port<br>±4kV Indirect, applied to coupling plane<br><br>Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3)<br>80-1000MHz, 10 V/m (RMS, no modulation) 80% Modulation with 1kHz Sine wave<br><br>Electrical fast transient/burst immunity test (EN61000-4-4)<br>Power port ac, inc. protective earth<br>Severity ±2kV<br><br>Surge Immunity test (EN61000-4-5)<br>Power port ac<br>Severity ±2kV applied line to line<br>Severity ±2kV applied line to earth<br><br>Immunity to conducted disturbances induced by radio frequency fields (EN61000-4-6)<br>Power port ac, inc. protective earth via CDN M3<br>0.15-80MHz, 10 V/m (no modulation) 80% Modulation with 1kHz Sine wave, applied via CDN type M3<br><br>Voltage dips, short interrupts and voltages variations immunity tests (EN61000-4-11)<br>Power port ac<br>>95% Reduction, 0.5 Periods<br>>30% Reduction, 25 Periods<br>>95% Reduction, 250 Periods<br><br>Voltage dips, short interrupts and voltages variations immunity tests (EN61000-6-2)<br>Power port ac<br>>30% Reduction, 0.5 Periods<br>>60% Reduction, 25 Periods<br>>100% Reduction, 250 Periods<br><br>Limits for harmonic current measurement (EN 61000-3-2), Product Class D<br><br>Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3)<br><br>Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements. |
| Storage                         | 250GB SATA RAID Edition HDD 7200rpm<br>DVDRW<br><br>Total drive capacity: 2 x 5.25", 1 x 3.5" HDD, 1 x 3.5" FDD / HDD<br><br>We can provide storage and backup solutions for any application  | Safety                                      | Safety of information technology equipment (EN 60950)<br>CE Marked   |
| System expansion                | Ventrix 515-P7: 5 PCI (3 x full length, 2 x 180mm)<br>Ventrix 515: *2 ISA (full length) and 3 PCI (1 x full length, 2 x 180mm)<br><br>*Can be increased to up to 4 ISA slots on demand<br>Additional slots may be freed up by omitting or relocating single board computer I/O brackets   | Electrical ratings                          | Voltage: 115 ~ 230 VAC full range<br>Frequency: 50~60Hz<br>Input current: 10.0 / 5.0A for 115 / 230 VAC<br>Inrush current: 50 / 100A max for 115 / 230 VAC<br>PSU maximum secondary loading: 460W*<br>Active PFC<br>Power factor >0.96 at full load<br>Over power / voltage / current protection<br>Short circuit protection<br><br>*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<br>PICMG 1.0 Compliant<br>PCI V2.2 Compliant  | Electrical ratings<br>Dual redundant option | Voltage: 90 ~ 264 VAC full range<br>Frequency: 47~63Hz<br>Input current: 8.0 / 4.0A for 115 / 230 VAC<br>Inrush current: 60A / 80A max for 115 / 230 VAC per module<br>PSU maximum secondary loading: 400W*<br>Active PFC<br>Power factor >0.96 at full load<br>Over power / voltage / current protection<br>Short circuit protection<br>Hot-swappable / hot-pluggable<br>Balance load sharing design<br>AC inlet in each module<br><br>*Higher rated power supplies are available and we recommend that you discuss your power requirements before placing your order   |
| Supported OS (Operating System) | Windows Vista, Windows XP, Windows 2000 (available via Windows XP Pro downgrade rights)<br><br>If your desired operating system is not listed, please contact us.   | Reliability                                 | System MTBF: >15,000 hrs (we can provide information for specific configurations)<br>Four hour burn-in diagnostic run on every system  |
| Internal interfaces             | SATA HDD: Serial ATA Ports, bandwidth 300 MB/s x 4<br>IDE HDD: Ultra ATA100/66/33, 40 pin connector x 1<br>Floppy: 34-pin connector x 1<br>USB: On board USB port x 2, USB 2.0 compliant<br>Serial port: 10-pin header x 3 (RS232), 14-pin header x 1 (RS232/422/485)<br>Mouse: Mini-DIN PS/2 x 1<br>Keyboard: Mini-DIN PS/2 x 1<br>Digital I/O Port: 4 in and 4 out with TTL level interface x 1<br>On board buzzer x 1<br>4-pin for speaker x 1<br>2-pin header for SMBus 2.0 x 1<br>I2DA: On board 5 pin header x 1  |   |  |
| LEDs and switches               | Power (PC ON) LED<br>Hard disk access LED x 2<br>Environmental temperature warning LED<br>System fan monitor LED x 2<br>Environmental monitoring buzzer reset<br>Front: ATX system control switch, system reset<br>Rear: System ON / OFF power switch   |   |  |
| External interfaces             | USB: Front x 2, Rear x 2<br>Serial: COM1 and COM2<br>VGA: DB-15 connector x 1<br>Front keyboard: Mini-DIN for keyboard only x 1<br>LAN: RJ45 Ethernet x 2   |   |  |
| Mechanical                      | Design: Desktop or wall mount<br>Construction: Heavy duty cold rolled electroplated steel<br>Colour: Black (custom colours available for large orders)<br>Dimensions: 350(W) x 177(H) x 411(D) mm (13.8" x 7.0" x 16.2")<br>Packaging size: 490(W) x 324(H) x 558(D) mm (19.3" x 12.8" x 22.0")<br>Total drive capacity: 2 x 5.25", 1 x 3.5" HDD, 1 x 3.5" floppy disk drive<br>Cooling: 1 x 120mm fan, 90 CFM<br>Air filter: removable (washable)<br>Gross weight: approximately 17kg  |   |  |
| Environmental operational       | Acoustic noise: 50dBA sound pressure at 23°C (typical)<br>Temperature: 5 to 45°C (tested for extended operation up to 50°C)<br>Humidity: 5 to 90% at 25°C non-condensing<br><br>Please contact us to discuss extended or harsher environmental specifications   |   |  |

29-05-08

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