

# Ventrix 511



## Features

The **Ventrix 510 series** utilises an industrial single board computer and backplane architecture to provide excellent expansion capabilities, easy upgrades, reliability and repeatability.

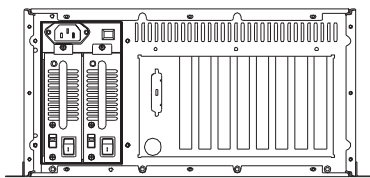
These models are ideally suited to desktop applications when industrial performance is desired. Additionally these models can be wall mounted by the brackets supplied.

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

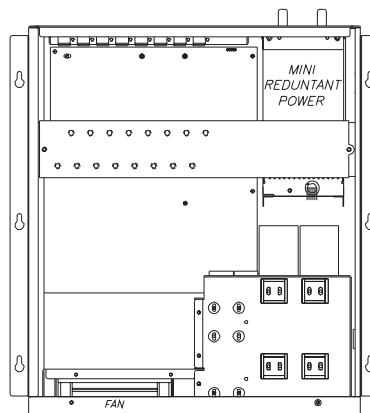
Systems can be tailored to meet your exact requirements.

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

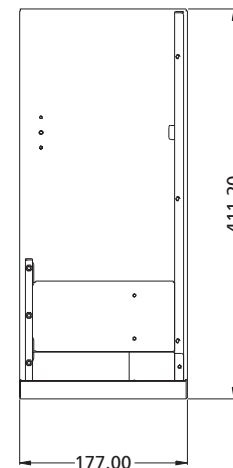
## Dimensions



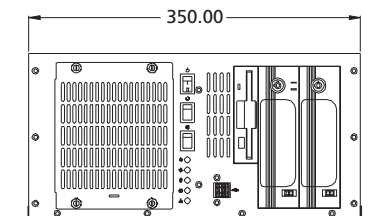
Rear View



Top View



Side View



Front View

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## 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<br>Main memory: 1GB DDR400, dual channel<br>Upgradeable to: 2GB<br>Chipset: Intel 865GV + ICH5 chipset<br>Video: Shared integrated graphics controller from chipset<br>LAN: Intel 82551QM 10/100 Ethernet<br>System monitor controller: From Super I/O<br>RTC: On chip with battery backup<br>Watchdog timer: Programmable by software from 1, 2, 4, 8, 16, 32, .....128 seconds<br>ISAMAX support: ITE 8888F x 1 PCI to ISA Bridge<br>Serial I/O: 16C550 UARTs<br>Environmental monitoring: Dedicated hardware monitoring board        | Environmental storage                       | Temperature: -20 to 65°C<br>Humidity: 5 to 90% at 25°C non-condensing  |
| BIOS                            | Award System BIOS<br>Plug & Play support<br>Advanced Power Management  | 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                         | 80GB IDE 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>We can provide storage and backup solutions for any application  | Safety                                      | Safety of information technology equipment (EN 60950)<br>CE Marked   |
| System expansion                | Ventrix 511-P7: 5 PCI (3 x full length, 2 x 180mm)<br>Ventrix 511: *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 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 150 MB/s x 4<br>IDE HDD: Ultra ATA100/66/33, 40 pin connector x 2<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 2<br>Parallel port: Bi-directional, EPP/ECP support, 26 pin connector x 1<br>Mouse / keyboard: Mini-DIN PS/2 x 1<br>Disk on module: 2-pin power connector for IDE DOM 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>IrDA: On board 5 pin header x 1 | 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   |
| 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  | 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  |
| External interfaces             | USB: Front x 2<br>Serial: COM1 and COM2<br>Parallel: LPT1 (EPP/ECP)<br>VGA: DB-15 connector x 1<br>Rear keyboard / mouse: Mini-DIN for keyboard / mouse x 1<br>LAN: RJ45 Ethernet x 1<br>Front keyboard: DIN connector x 1   |   |  |

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