

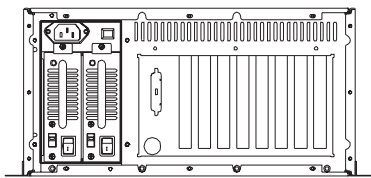
## Ventrix 527/8/9 PICMG 1.3



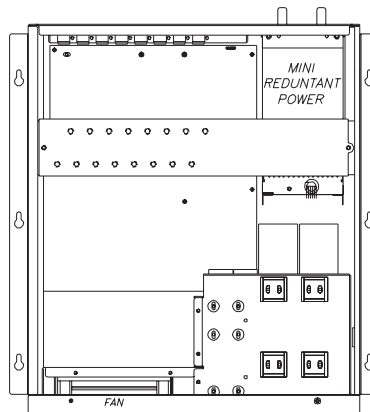
### Features

- 5 year product life achieved with industrial components
- Designed for mission critical 24/7 operation
- Assembled and tested within a lean manufacturing environment under ISO 9001

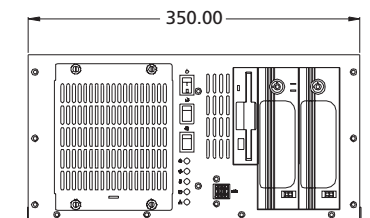
### Dimensions



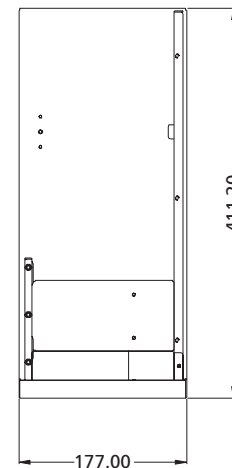
Rear View



Top View



Front View



Side View

# Ventrix 527/8/9 PICMG 1.3

## Specifications

Hardware specification	Processors incorporated into each model: Ventrix 527-E1.6 - Intel Celeron Dual Core E1500 LGA775, 2.20GHz, 800MHz, 512KB cache Ventrix 528-E1.6 - Intel Core 2 Duo E7400 LGA775, 2.80GHz, 1066MHz, 3MB cache Ventrix 529-E1.6 - Intel Core 2 Quad Q9400 LGA775, 2.66GHz, 1333MHz, 6MB cache Chipset: Intel Q35 + ICH9R, supports RAID 0, 1, 10 and 5 Main memory: 1GB DDR2 667 / 800MHz, dual channel (maximum 8GB*) Video: Intel Q35 GMCH 3100 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 82573L Watchdog timer: 255 levels, 1~255 seconds Hardware Monitor: Supports CPU temperature, system temperature, power failure and fan speed  * Usable memory capacity may be limited by the operating system..	Environmental operational	Acoustic noise: 50dBA 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
BIOS	Phoenix-Award BIOS	Environmental storage	Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing
Storage	250GB HDD 7200rpm DVDRW Total drive capacity: 2 x 5.25", 1 x 3.5" HDD, 1 x 3.5" FDD / HDD We can provide storage and backup solutions for any application	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.
System expansion	5 PCI (1 x full length, 4 x 180mm) 1 x PCIe X16 (Graphics Only)  Additional slots can be made available by reducing I/O ports such as serial, parallel and USB.	Safety	Safety of information technology equipment (EN 60950) CE Marked
System architecture	Full-sized SBC with PCI / PCIe golden finger PICMG 1.3 Compliant PCI V2.2 Compliant	Electrical ratings	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 supplies options are available. We recommend that you discuss your power requirements before placing your order
Supported OS (Operating System)	Windows XP, Windows Vista, Windows 7 32/64 Bit, Windows Server 2003 and 2008 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.	Reliability	System MTBF: >25,000 hrs (we can provide information for specific configurations) Four hour burn-in diagnostic run on every system
Internal interfaces	SATA: Serial ATA Ports, bandwidth 300 MB/s x 6, supports RAID 0, 1, 10 and 5 Floppy: 34-pin connector x 1 USB: 6 USB 2.0 compliant On board buzzer x 1 4-pin for speaker x 1 Mouse: Mini-DIN PS/2 x 1 Keyboard: Mini-DIN PS/2 x 1 Serial port: 1 RS232 (COM1), 1 RS232/422/485 (COM 2) * Parallel Port: 1 LPT (SPP/EPP/ECP supported) *  * Available on rear via break-out cables. COM2 port cable optional.		
LEDs and switches	Power (PC ON) LED Hard disk access LED x 2 Environmental temperature warning LED System fan monitor LED x 2 Environmental monitoring buzzer reset Front: ATX system control switch, system reset		
External interfaces	Front USB: 2 ports Front keyboard: Mini-DIN for (keyboard only) Rear USB: 2 ports Serial: COM1 (9 pin D-Type) Serial: COM2 (9 pin D-Type) Parallel Port: LPT (25 pin D-Type) VGA: DB-15 connector x 1 LAN: RJ45 Ethernet x 2		
Mechanical	Design: Desktop or wall mount Construction: Heavy duty cold rolled electroplated steel Colour: Black (custom colours available for large orders) Dimensions: 350(W) x 177(H) x 411(D) mm (13.8" x 7.0" x 16.2") Packaging size: 490(W) x 324(H) x 558(D) mm (19.3" x 12.8" x 22.0") Total drive capacity: 2 x 5.25", 1 x 3.5" HDD, 1 x 3.5" floppy disk drive Cooling: 1 x 120mm fan, 90 CFM Air filter: Removable (washable) Gross weight: Approximately 17kg		

Model	PCIe slots	PCI slots	Processor
Ventrix 527-E1.6	1	4	Intel Celeron Dual Core E1500, 2.20GHz
Ventrix 528-E1.6	1	4	Intel Core 2 Duo E7400, 2.80GHz
Ventrix 529-E1.6	1	4	Intel Core 2 Quad Q9400, 2.66GHz