

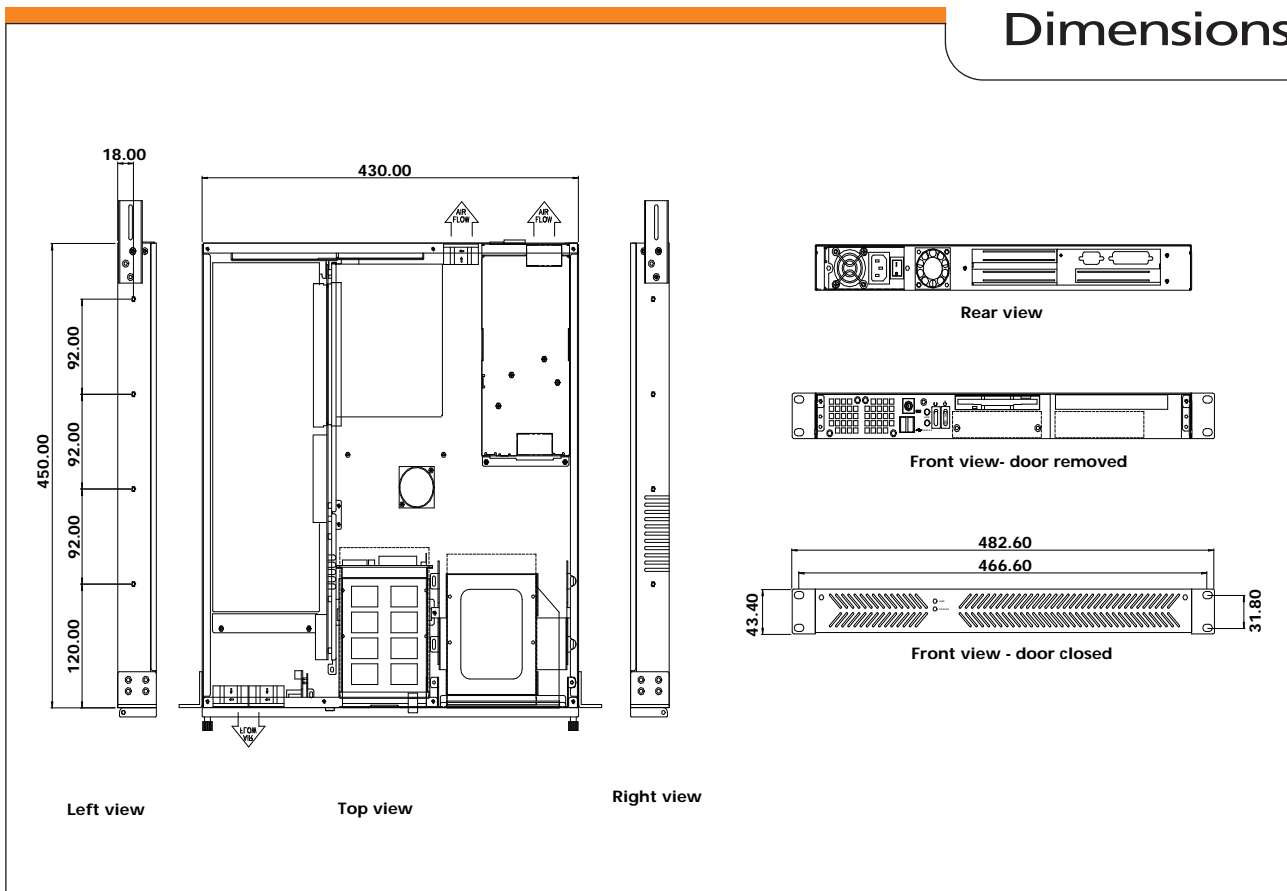
Ventrix 1020/21 PICMG 1.0



Features

- 3 year warranty, first year onsite (UK Customers Only)
- Supports RAID hot-swap 2.5" HDD/SDD
- PICMG 1.0 backplane offers two PCI card expansion slots
- Constructed from roadmapped industrial components
- Designed for mission critical 24/7 applications
- Assembled and tested within a lean manufacturing environment under ISO 9001

Dimensions



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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	Processors incorporated into each model: Ventrix 1020-P2.0 - Intel Core i5-660 Processor LGA1156 (2 cores/4 threads), 3.33 GHz, 4M Cache. Ventrix 1021-P2.0 - Intel Core i7-860 Processor LGA1156 (4 cores/8 threads), 2.80 GHz, 8M Cache. Chipset: Intel Q57 Express Chipset Main memory: 2GB DDR3 1066/1333MHz, dual channel (maximum 8GB*) LAN: 2 ports as 10/100/1000Mbps support Wake-on-LAN, PXE Boot ROM with Intel 82574L Watchdog timer: 255 levels, 1-255 seconds Hardware Monitor: CPU temperature, system temperature, power failure and fan speed * Usable memory capacity may be limited by the operating system.	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.
BIOS	Award BIOS	Safety	Safety of information technology equipment (EN 60950) CE Marked
Storage	2 X 500GB SATA HDD DVDRW drive Total drive capacity: 1 x DVDRW, 2 x 2.5" HDD/SSD We can provide storage and backup solutions for any application	Electrical ratings	Voltage: 90 ~ 264 VAC full range Frequency: 47 ~ 63Hz Input current: 6.0 / 3.0A for 115 / 230 VAC Inrush current: 60 / 80A max for 115 / 230 VAC PSU maximum secondary loading: 300W Typical Power 150W (unexpanded) Active PFC Power factor >0.96 at full load Over power/voltage/current protection Short circuit protection Higher rated and DC power supply options are available. We recommend that you discuss your power requirements before placing your order
System expansion	2 x PCI slots (195mm length) *One card slot must be sacrificed if COM2 is required on a rear bracket.	Reliability	System MTBF: >25,000 hrs @ 25°C Diagnostic burn-in run on every system
System architecture	Full-sized SBC with PCI / ISA golden finger PICMG 1.0 (Rev 2.0) Compliant PCI V2.2 Compliant		
Supported OS (Operating System)	Windows XP, Windows Vista, Windows 7 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.		
Internal interfaces	6 x SATA 3 Gb/s ports (supports RAID 0/1/5/10) 1x PCIe Mini Card slot expansion Slot 8 x USB 2.0 ports (2x faceplate, 6x on-board pin headers) 1 x On-board pin header for PS/2 keyboard/mouse 1 x Parallel Port 4 x RS-232 Serial Ports 2 x RS-232/422/485 Serial Ports		
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	1 x DB15 VGA connector 2 x RJ45 GbE port 2 x USB 2.0 2 x Removeable 2.5" HDD/SSD		
Mechanical	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 44(H) x 450(D) mm (19" x 1.7" x 17.7") Packaging size: 615(W) x 179(H) x 600(D) mm (24.2" x 7.0" x 23.6") Cooling: 3 x 40mm fan, 7 CFM each Gross weight: approximately 8kg		
Environmental operational	Acoustic noise: 53dBA sound pressure at 23°C (typical) Temperature: 5 to 35°C (tested for extended operation up to 50°C) Humidity: 5 to 90% at 25°C non-condensing We can design systems to meet additional requirements		
Environmental storage	Temperature: -20 to 65°C Humidity: 5 to 90% at 25°C non-condensing		

Model	PCIe slots	PCI slots	Processor
Ventrix 1020	0	2	Intel Core i5-660, 3.33GHz
Ventrix 1021	0	1	Intel Core i7-860, 2.8GHz

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