

# Ventrix-W 4004



## Features

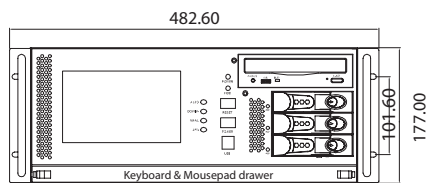
The **Ventrix-W 4000 series** utilises an industrial single board computer and backplane architecture to provide excellent expansion capabilities, easy upgrades, reliability, repeatability and a clear 7.0 inch TFT and fitted with an integral Cherry keyboard and trackball drawer. The **Ventrix-W 4004** comes with an Intel Core 2 Duo processor provides PCI and PCI Express expansion using PICMG 1.3 technology.

Manufactured from selected high quality industrial components, these workstations will provide a fast stable platform which will be available for a minimum of 5 years.

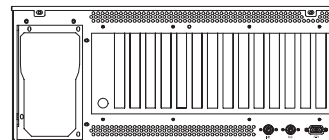
Our production processes are controlled under ISO 9001:2000 and every system undergoes a full diagnostic burn-in prior to shipment.

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.

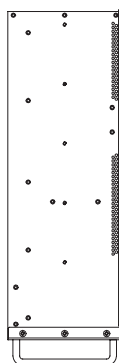
## Dimensions



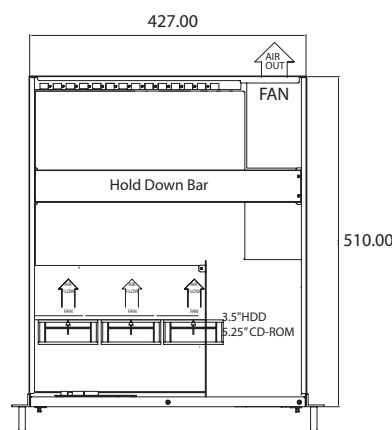
Front out-side view



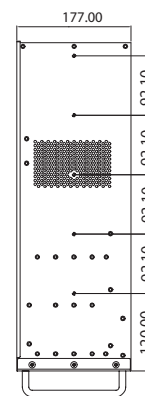
Rear out-side view



Left-side View



Top View



Right-side View

Configuration shown is for illustration purposes only

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# Ventrix-W 4004

## 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	<p>CPU: Intel Core 2 Duo E6420, 2.13GHz, 1066MHz, 4MB cache            Main memory: 1GB DDR2 667MHz, dual channel            Upgradeable to: 4GB            Chipset: Intel Q965 + ICH8R chipset, supports RAID 0,1,5,10 (via backplane) function            Video: Integrated Intel GMA 3000 Graphics            LAN: Dual Marvell 88E8053 PCI ExpressTM Gigabit Ethernet controllers            RTC: On chip with battery backup            Watchdog timer: Programmable by SW: 1 sec.-255 min. and 1 sec. or 1 min./step            I/O Chip: ITE 81T8718F I/O Controller            Display Resolution: Analog display : up to 2048 x 1536 @ 75Hz (QXGA)            Flat Panels : up to 2048 x 1536 @ 60 Hz</p>	Mechanical	<p>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 177(H) x 510(D) mm (19" x 7" x 20.1")            Packaging size: 591(W) x 340(H) x 688(D) mm (23.3" x 13.4" x 27.1")            Total drive capacity: 1 x 5.25" + 3 x 3.5" HDD Caddy (SATA, SAS &amp; SCSI320 available)            Cooling: 3 x 92mm fan, 51 CFM each            Gross weight: approximately 20kg</p>
TFT panel	<p>Screen size: 7.0 inch (diagonal)            Adjustment: Brightness, contrast and RGB picture via on-screen display (OSD)            Aspect Ratio: 16:9            Input Signal: RK-070-13: VGA (Analogue RGB only)            Number of Pixels: 800 (H) x RGB x 480 (V) Pixel Pitch: 0.1905 x 0.1905 mm            Active Area: 152.4 (H) x 91.44 (V)            View Angle (U / D / L / R): 100 (V), 140 (H)            Brightness: 220 nits Contrast Ratio: 400            Response Time: 30 msec Lamp Life: 15,000 hrs</p>	Environmental operational	<p>Acoustic noise: Approximately 49dBA sound pressure at 23°C (typical)            Temperature: 0 to 45°C (tested for extended operation up to 50°C)            Humidity: 5 to 90% at 25°C non-condensing</p>
Supported graphics modes	<p>Resolution: 800 (H) x 480 (V) (Recommended display mode)            Other modes are available, but may not be full screen or centred correctly.</p>	Environmental storage	<p>Temperature: -20 to 65°C            Humidity: 5 to 90% at 25°C non-condensing</p>
Keyboard	<p>Manufacturer: Cherry            Integrated, high-quality 16 mm trackball            Number of keys: 84 (European version), 83 (US version)            Extremely flat design            Keycaps arranged in 18 mm grid            High reliability Gold Crosspoint contacts            MTBF: &gt;134,000 hours            Individual keys have long service life: approx. 20 million key operations</p>	Electromagnetic compatibility (EMC)	<p>EN55022 Class A            EN55024 Industrial severity (where applicable)</p> <p>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</p> <p>Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3)            80-1000MHz, 10 V/m (RMS, no modulation) 80% Modulation with 1kHz Sine wave</p> <p>Electrical fast transient/burst immunity test (EN61000-4-4)            Power port ac, inc. protective earth            Severity ±2kV</p> <p>Surge Immunity test (EN61000-4-5)            Power port ac            Severity ±2kV applied line to line            Severity ±2kV applied line to earth</p> <p>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</p> <p>Voltage dips, short interrupts and voltages variations immunity tests (EN61000-4-11)            Power port ac            &gt;95% Reduction, 0.5 Periods            &gt;30% Reduction, 25 Periods            &gt;95% Reduction, 250 Periods</p> <p>Voltage dips, short interrupts and voltages variations immunity tests (EN61000-6-2)            Power port ac            &gt;30% Reduction, 0.5 Periods            &gt;60% Reduction, 25 Periods            &gt;100% Reduction, 250 Periods</p> <p>Limits for harmonic current measurement (EN 61000-3-2), Product Class D</p> <p>Limitation of voltage changes, voltage fluctuations and flicker (EN 61000-3-3)</p> <p>Amplicon own a fully equipped EMC facility and can provide many additional tests to meet your requirements.</p>
BIOS	<p>AMI BIOS, 8Mb Flash EEPROM            Plug &amp; Play support            Advanced Power Management &amp; Advanced Configuration &amp; Power Interface Support</p>	Safety	<p>Safety of information technology equipment (EN 60950)            CE Marked</p>
Storage	<p>250GB SATA RAID Edition HDD 7200rpm            DVDRW            Total drive capacity: 1 x 5.25" + 3 x 3.5" HDD Caddies (SATA, SAS &amp; SCSI320 available )            We can provide storage and backup solutions for any application</p>	Electrical ratings	<p>Voltage: 90 – 264 VAC full range            Frequency: 47 – 63Hz            Input current: 10.0 / 5.0A for 115 / 230 VAC            Inrush current: 80A max            PSU maximum secondary loading: 460W*            Active PFC            EMI noise filter            Over power/voltage/current protection            Short circuit protection</p> <p>*Higher rated power supplies are available and we recommend that you discuss your power requirements before placing your order</p>
System expansion	<p>Ventrix-W 4004: 7 PCI slots (3 x full length, 4 x 180mm length), 4 x PCI Express X 1 slots (3 x full length, 1 x 180mm Low Profile) and 1 x PCI Express X 16 slot (full length) for graphics card only            Additional slots may be freed up by not fitting single board computer I/O brackets</p>	Reliability	<p>System MTBF: &gt;15,000 hrs* (we can provide information for specific configurations)            Four hour burn-in diagnostic run on every system</p> <p>*Excludes TFT backlight life of 15,000 hrs</p>
System architecture	<p>Full-sized SBC with PCI / ISA golden finger            PICMG 1.3 Compliant            PCI V2.2 Compliant</p>	Internal interfaces	<p>SATA HDD: Serial ATA Ports, bandwidth 300 MB/s x 4            IDE HDD: Ultra ATA100/66/33, 40 pin connector x 1            Floppy: 34-pin connector x 1            USB: On board USB port x 2, USB 2.0 compliant            Serial port: 10-pin header x 3 (RS232), 14-pin header x 1 (RS232/422/485)            Mouse: Mini-DIN PS/2 x 1            Keyboard: Mini-DIN PS/2 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</p>
Supported OS (Operating System)	<p>Windows XP, Windows 2000 (available via Windows XP Pro downgrade rights), Windows Vista.            If your desired operating system is not listed, please contact us.</p>	LEDs and switches	<p>Power (PC ON) LED            Hard disk access LED            Front: ATX system control switch, system reset            Rear: System ON/OFF power switch</p>
Supported OS (Operating System)	<p>Windows XP, Windows 2000 (available via Windows XP Pro downgrade rights), Windows Vista.            If your desired operating system is not listed, please contact us.</p>	External interfaces	<p>USB: Front x 2, Rear x 2            Serial: COM1 and COM2            VGA output : DB-15 connector x 1 VGA panel input: DB-15 connector x 1            Front keyboard: Mini-DIN for keyboard only x 1            LAN: RJ45 Ethernet x 2</p>

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