

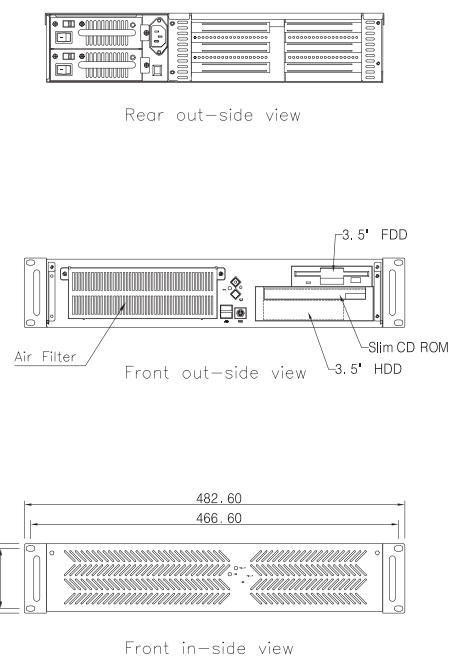
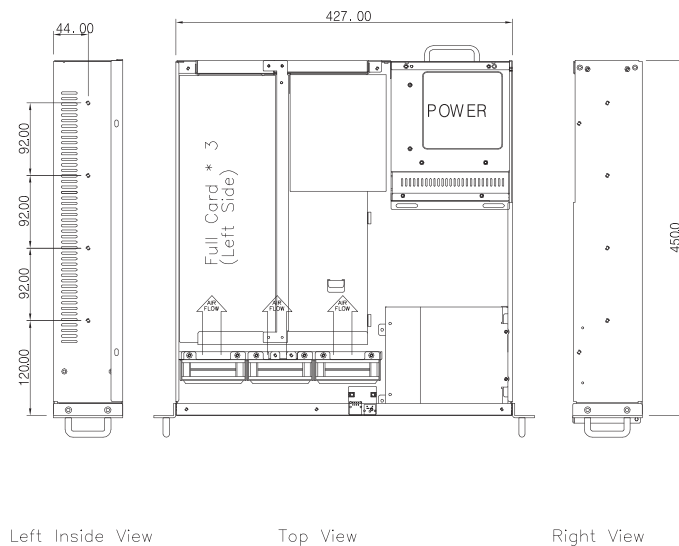
# Ventrix 2040/41/42



## Features

- Intel® 4th Generation Processor
- Supports iAMT 9.0
- Support for PCIe rev 3.0
- Road mapped industrial components
- Mission critical 24/7 applications
- Custom colours and OEM branding
- Assembled and tested within a lean environment under ISO-9001

## Dimensions



Configuration shown is for illustration purposes only

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# Ventrix 2040/41/42

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.

## Specifications

Hardware specification	Processors incorporated into each model: Ventrix 2040-E2.2 – Intel® Core™ i3-4330 3.5 GHz, 3M Cache Ventrix 2041-E2.2 – Intel® Core™ i5-4570S 2.9 GHz, 6M Cache Ventrix 2042-E2.2 – Intel® Core™ i7-4770S 3.1 GHz, 8M Cache  Chipset: Intel® Q87 Express Chipset Memory: 2GB DDR3 up to 1066/1333MHz dual channel (max 16GB*) Video: Integrated Intel® HD Graphics Display Resolution: Resolutions up to 1920 x 1200 @ 60 Hz LAN: Dual GbE (i217LM i211-AT), Watchdog Timer: 1-255 sec or 1-255 min  *Usable memory capacity may be limited by the operating system	Environmental storage	Temperature: -20 to 65°C
BIOS	AMI 2 x 32Mbit flash memory	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.
Storage	500GB SATA HDD DVDRW (standard height) Total drive capacity: 1 x 5.25" + 1 x 3.5" FDD / HDD (standard) or 1 x Slim DVDWRW, 2 x 3.5" HDD  We can provide storage and backup solutions for any application	Safety	Safety of information technology equipment (EN 60950)
System expansion	2 PCI (1 x full length, 1 x 180mm length), 1 x PCI Express x1 (240mm length) 1 x PCI Express x16 (240mm length) for graphics card only	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* Active PFC EMI noise filter Over power / voltage / current protection Short circuit protection
Supported OS (Operating System)	Microsoft Desktop: Windows 7, 8 (x86 and x64) Microsoft Server: Server 2008 R2, Server 2012 Linux: Ubuntu 13.10b (x86 and x64) Other operating systems available	Reliability	Reliability System MTBF: >25,000 hrs @ 25°C Diagnostic burn-in run on every system Typical Power 150W (unexpanded)
Internal interfaces	SATA: 4x SATA 6 Gb/s ports, supports RAID 0/1/5/1+0  USB: 6 x USB 3.0, 4 x USB 2.0 PS/2: 1x internal pin header for PS/2 keyboard/mouse* Serial Ports: 3 x RS-232, 1 x RS-232/422/485*  *Available via rear breakout		
LEDs and switches	Power (PC ON) LED Hard disk access LED Front: ATX system control switch, system reset		
External interfaces	Front USB: 2 ports Front keyboard: Mini-DIN for (keyboard only)  Rear USB: 2 x USB 3.0 ports on faceplate Serial: COM 1~4* (9 pin D-Type) VGA: DB-15 connector x 1 LAN: RJ45 Ethernet x 2  *Please discuss your port configuration requirements		
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 88(H) x 450(D) mm (19" x 3.5" x 17.7") Packaging size: 630(W) x 248(H) x 574(D) mm (24.8" x 9.8" x 22.6") Cooling: 3 x 80mm fan, 42.5 CFM each Air filter: removable (washable) Gross weight: approximately 20kg		
Environmental operational	Acoustic noise: 47dBA sound pressure at 23°C (typical) 49dBA(peak)* Temperature: 0 to 40°C (tested for operation up to 50°C) Humidity: 5 to 90% at 25°C non-condensing Low noise fan options are available (maximum operating temperature 35°C) We can design systems to meet additional requirements  * Thermally controlled system fans run at peak operating speed during system start up. Speed is reduced based system temperature.		

Model	PCIe slots	PCI slots	Processor
Ventrix 2040-E2.2	2	2	Intel Core i3-4330, 3.5GHz
Ventrix 2041-E2.2	2	2	Intel Core i5-4570S 2.9GHz
Ventrix 2042-E2.2	2	2	Intel Core i7-4770S 3.1GHz

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