

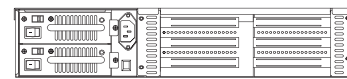
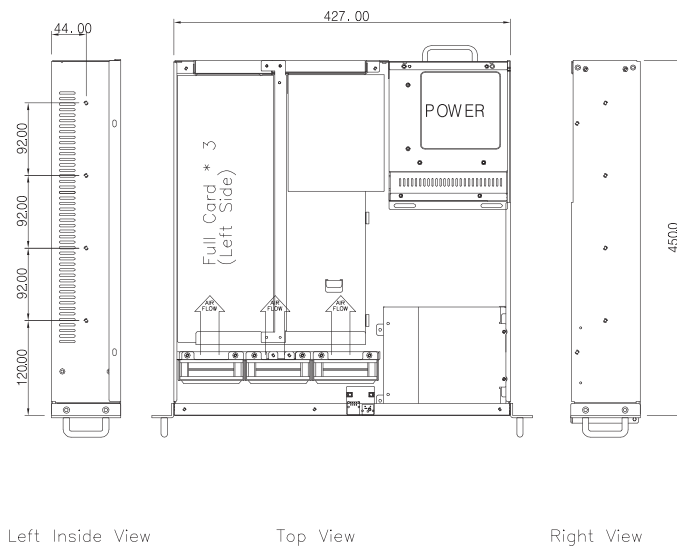
# Ventrix 2040/41/42



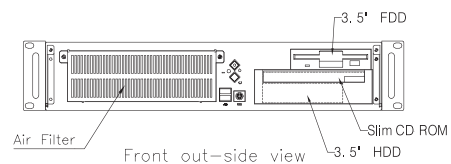
## Features

- 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

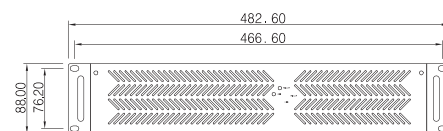
## Dimensions



Rear out-side view



Front out-side view



Front in-side view

Configuration shown is for illustration purposes only

## Ventrix 2040/41/42

## 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 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 DVD/CDRW, 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: 4 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