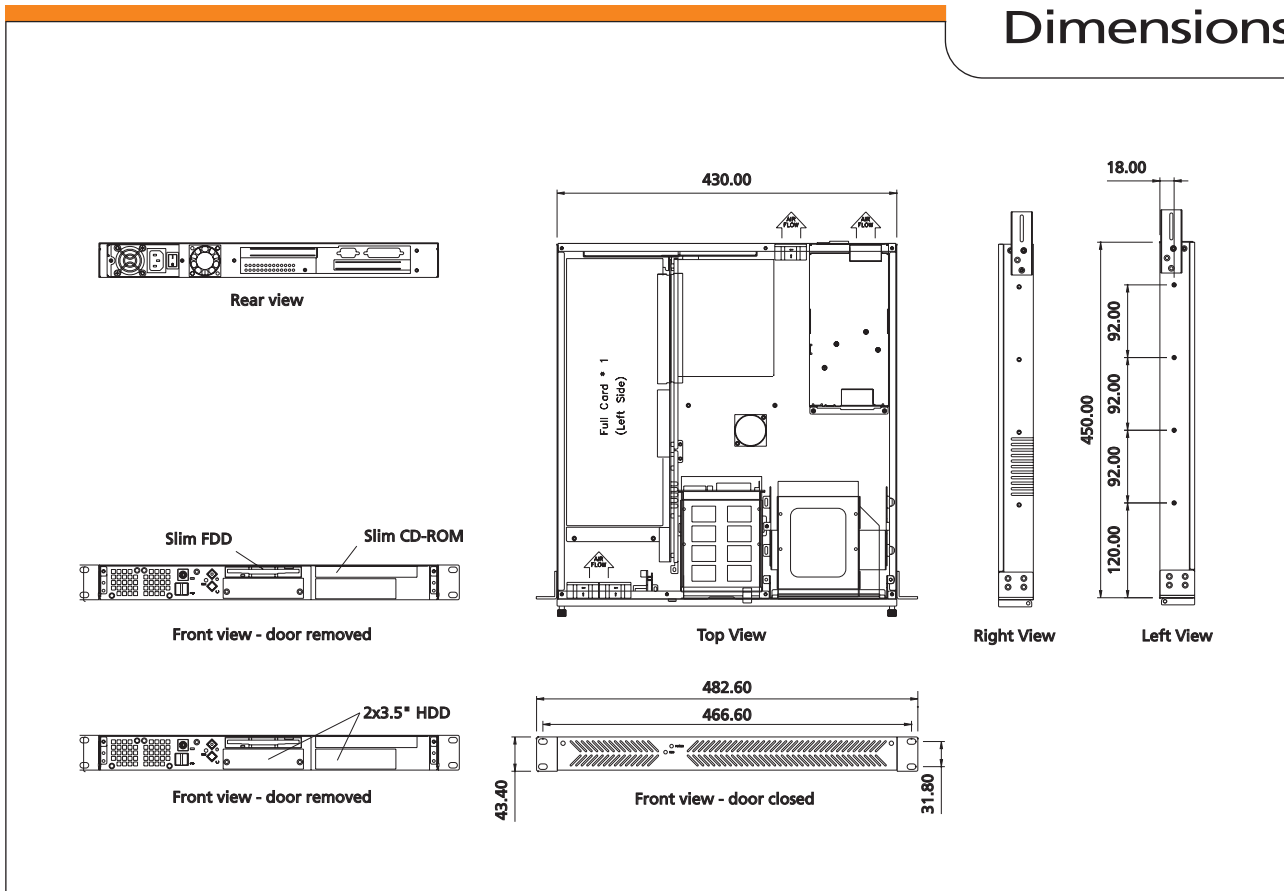# Ventrix 1033/34 PICMG 1.0

Features

- 3 year warranty, first year onsite (UK Customers Only)
- Custom colours and OEM branding service available
- 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

Rear view

Slim FDD   Slim CD-ROM

Front view - door removed

2x3.5" HDD

Front view - door removed

430.00

AIR FLOW   AIR FLOW

Full Card • 1 (Left Side)

AIR FLOW

Top View

18.00

92.00

92.00

92.00

92.00

120.00

450.00

Right View   Left View

482.60

466.60

43.40

Front view - door closed

31.80

Ventrix 1033/34 PICMG 1.0

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 1033-P2.0 – Intel ® Core ™ i5-3550S, LGA1155, 3.0GHz, 6MB cache
Ventrix 1034-P2.0 – Intel ® Core ™ i7-3770, LGA1155, 3.4GHz, 8MB cache
Chipset: Intel® B75
Memory: Dual DIMM (maximum 16GB DDR3)
LAN: Dual Intel® GbE (82579LM/82574L)

BIOS

AMI System BIOS

Storage

SATA III 3.5" HDD
DVD Drive
*We can provide storage and backup solutions for any application

System expansion

2 x PCI slots (195mm length)
*One card slot must be sacrificed if COM2 is required on a rear bracket

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)

TBC

*If your desired operating system is not listed, or you wish to check support for a specific Linux distribution, please contact us.

Internal interfaces

USB 2.0: 4 ports via 2.5mm JST
USB 3.0: 2 ports via I/O bracket l 2 ports via JST
Serial: 4 ports via 2*5 box header
(COM1/3/4: RS232 l COM2: RS232/422/485)

Parallel: 1 port via 2*13 box header

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

Front: USB 2.0: 2 ports
            Front keyboard: Mini-DIN

Rear: USB 3.0: 2 ports
            Serial: COM 1* (RS232) DB9
            Parallel: LPT DB25
            VGA: DB15
            LAN: Dual RJ45
      *COM1 can be changed to COM2 which supports RS232/422/485

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 (typic al)
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 requiremen ts

Environmental storage

Temperature: -20 to 65°C
Humidity: 5 to 90% at 25°C non-condensing

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.

Safety

Safety of information technology equipment (EN 60950)
CE Marked

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

Reliability

System MTBF: >25,000 hrs @ 25°C
Diagnostic burn-in run on every system

Model	PCIe slots	PCI slots	Processor
Ventrix 1033-P2.0	0	2	Intel® Core™ i5 -3550S, 3.0GHz
Ventrix 1034-P2.0	0	2	Intel® Core™ i7 -3770, 3.4GHz

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