

# PRC-2204A

The world's first 19" rack-mount PICMG 1.2 dual Intel® Xeon™ processor based system platform



## FEATURE

- Support for dual Intel® Xeon processor based ePCI-X SBC (ROBO-8820VG2)
- One NB CD-ROM, one NB FDD and two 3.5" HDD drive bays
- Cooling tunnel design, between SBC and PSU, for expiring heat generated by CPU
- Two 8 cm cooling fans with one replaceable filter at the front and one 4 cm cooling fan at the back
- Four LED indicators for power on/off, hard drive active and Ethernet status
- Detachable card cage design for ease of installation of SBC and add-on card



▲ PRC-2204A rear view

## General

<b>Construction</b>	Heavy-duty steel
<b>Drive Bay</b>	External: NB CD-ROM x1 + NB FDD x1 Internal: 3.5" HDD x2
<b>Air Filter</b>	N/A
<b>Cooling Fan</b>	Two 8 cm cooling fans at the front / One 4 cm cooling fan at the back
<b>Indicator</b>	Power on/off x1, HDD x1, Ethernet activity x2
<b>Switch</b>	Power on/off x1, System reset x1
<b>Speaker</b>	N/A
<b>Connector</b>	Two USB connectors on the front panel Reserve one COM port and PRT port on the rear panel Two USB, one PS/2 keyboard/mouse and one COM ports available thru the PA-I1KUC daughter board on the rear panel
<b>Standard Color</b>	Black
<b>Dimension</b>	481.6(W) x 502.4(D) x 88.4(H) mm; 19"(W) x 19.78"(D) x 3.48"(H)
<b>Weight</b>	With Single PSU: Net: 23kg (50.7 lb); Gross: 26 kg (57.3 lb) With Redundant PSU: Net: 25.5kg (56.2 lb); Gross: 28.5 kg (62.8 lb)
<b>Backplane</b>	PBP-06V564: Vertical 6-slot (5xPCI-X) PICMG 1.2 backplane

## Power Supply (Single: ORION-B4001 / Redundant: ORION-B3502 optional)

<b>Maximum Output</b>	Single: 400W PFC / Redundant: 350W PFC
<b>Output Voltage &amp; Current</b>	Single: +5V@33A, +12V@25A, -5V@0.8A, -12V@1.0A, +3.3V@28A, +5Vsb@2.0A Redundant: +5V@35A, +12V@22A, -5V@0.5A, -12V@0.8A, +3.3V@20A, +5Vsb@2.0A
<b>Input Voltage</b>	Single: 90V ~ 264V AC full range / Redundant: 90V ~ 264V AC full range
<b>Input Frequency</b>	47 ~ 63 Hz
<b>Input Current</b>	Single: 7A@115V AC, 3.5A@230V
<b>Efficiency</b>	Single: > 70% / Redundant: > 63%
<b>MTBF Reliability</b>	Single: 87,961 hrs / Redundant: 75,145 hrs
<b>Certification</b>	UL, cUL, TUV, CE, FCC

## Environment

<b>Operating Temperature Range</b>	0 to 40°C
<b>Storage Temperature Range</b>	0 to +70°C
<b>Relative Humidity</b>	5% to 95%, non-condensin

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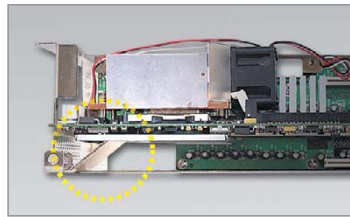
FEATURE	BENEFITS
PICMG 1.2 compliant	Support for ePCI-X SBC
Cooling tunnel design between SBC and PSU	Better ventilation to enhance system reliability
Replaceable air filter	For easy cleaning & exchange
Two LED indicators for Ethernet on the front panel	Ethernet status is easy to be perceived from the front
Two independent PCI-X buses	For high expandability at no sacrifice of speed hold down

## WHAT'S NEW



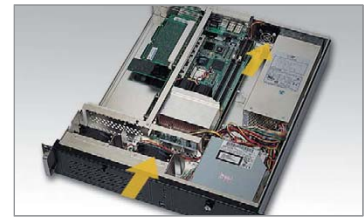
### Lockable door for security

Switches are inside the front door of PRC-2204A for better security.



### Support frame for cooler

One Z-shaped support frame for holding the cooler to prevent the SBC from bending.



### Cooling tunnel

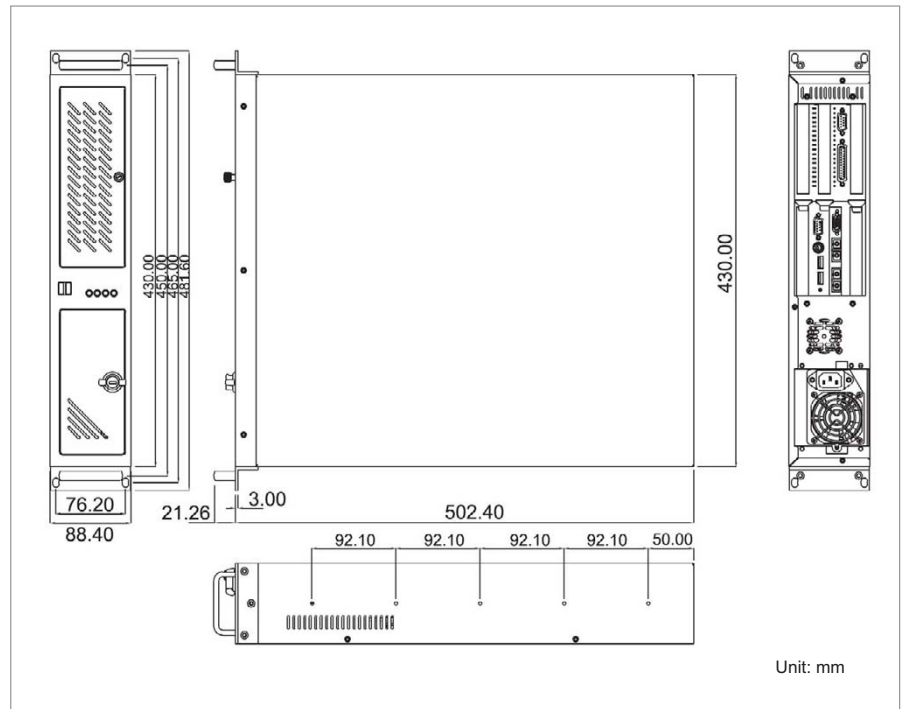
Two intake cooling fans at the front and one exhaust cooling fan between the SBC and PSU to provide smooth airflow



### Card cage

A detachable card cage is equipped for ease of installation.

## ENGINEERING DRAWING



## ORDERING GUIDE

### PRC-2204A-6V564-4001

19" 2U rack-mount chassis with vertical 6-slot (5xPCI-X) PICMG 1.2 backplane and 400W PFC ATX power supply

### PRC-2204A-6V564-3502

19" 2U rack-mount chassis with vertical 6-slot (5xPCI-X) PICMG 1.2 backplane and 350 redundant PFC ATX power supply