

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

| | |
|-----------------------|---|
| Construction | Heavy-duty steel |
| Drive Bay | External: NB CD-ROM x1 + NB FDD x1 Internal: 3.5" HDD x2 |
| Air Filter | N/A |
| Cooling Fan | Two 8 cm cooling fans at the front / One 4 cm cooling fan at the back |
| Indicator | Power on/off x1, HDD x1, Ethernet activity x2 |
| Switch | Power on/off x1, System reset x1 |
| Speaker | N/A |
| Connector | 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 |
| Standard Color | Black |
| Dimension | 481.6(W) x 502.4(D) x 88.4(H) mm; 19"(W) x 19.78"(D) x 3.48"(H) |
| Weight | 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) |
| Backplane | PBP-06V564: Vertical 6-slot (5xPCI-X) PICMG 1.2 backplane |

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

| | |
|-------------------------------------|---|
| Maximum Output | Single: 400W PFC / Redundant: 350W PFC |
| Output Voltage & Current | 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 |
| Input Voltage | Single: 90V ~ 264V AC full range / Redundant: 90V ~ 264V AC full range |
| Input Frequency | 47 ~ 63 Hz |
| Input Current | Single: 7A@115V AC, 3.5A@230V |
| Efficiency | Single: > 70% / Redundant: > 63% |
| MTBF Reliability | Single: 87,961 hrs / Redundant: 75,145 hrs |
| Certification | UL, cUL, TUV, CE, FCC |

Environment

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

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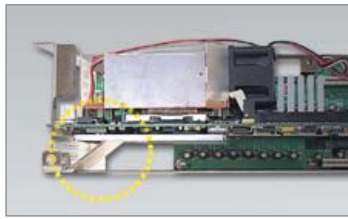
| FEATURE | BENEFITS |
|--|---|
| PICMG 1.2 compliant | Support for ePCI-X SBC |
| Cooling tunnel design between SBC and PSU | Better ventilation to enhance system reliability |
| Replaceable air filter | For easy cleaning & exchange |
| Two LED indicators for Ethernet on the front panel | Ethernet status 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

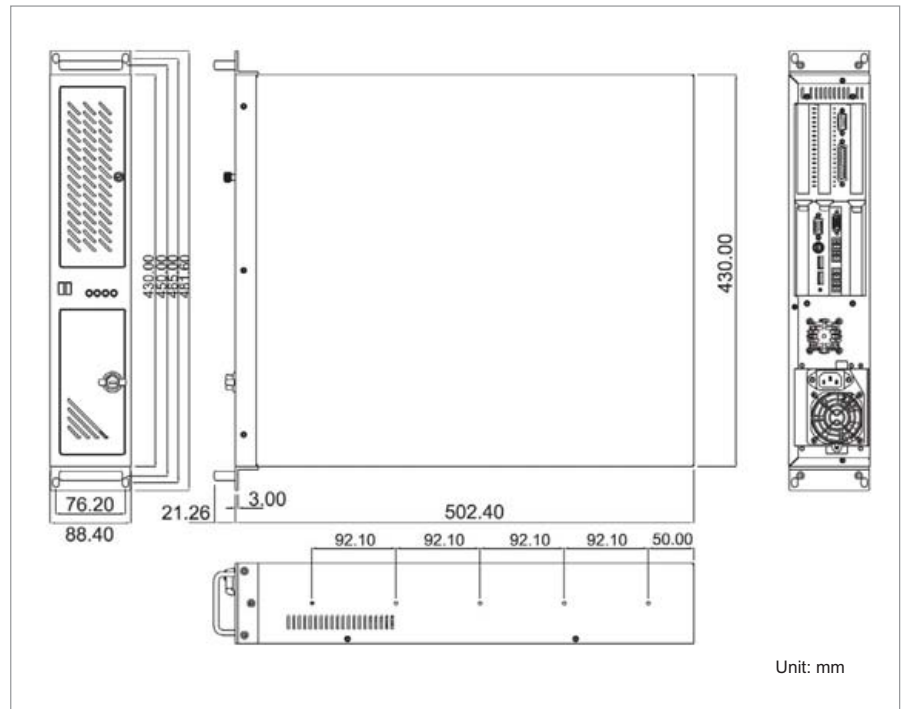
Two intake cooling fans at the front and one exhaust cooling fan between the SBC and PSU to provide smooth airflow



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