



▲ PRC-2204

The rollout of Intel Pentium® 4 processor brings unparalleled computing power to satisfy the requirements of today's multitasking business environments. Along comes also the bigger and heavier cooler as its thermal solution. As a result, the SBC sustains stronger force and suffers a bigger chance to get internal damage under harsh environment, like vibration and shock. Though Pentium® 4 processor is designed with self-protection from overheat, it results in lower processing speed as well as performance.

Dedicated to providing customers the best, Portwell introduced PRC-2204 as a solution to Pentium® 4 processor based platform.

As for the ventilation, PRC-2204 is equipped with two fans at the front to draw in cooling air and with one blower at back to blow out heat. The inside tunnel-like cooling design between SBC and PSU helps airflow goes smoothly and keeps the whole system well ventilated. To relieve the load of heavier cooler for Pentium® 4 based SBC, the fixing mechanism together with the rubber cushion is provided to prevent SBC from jumping out from slot and bending.

PRC-2204 gives you multiple choices between power sources. All PS/2 power supplies are adaptable. You are free to choose a proper one to meet the system requirements.

Feature

- Up to four PCI expansion slots
- 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 fans with one replaceable filter at the front and one 5 cm blower at the back
- Two LED indicators for power on/off and hard drive active
- Detachable card cage design for ease of installation of SBC and add-on card

General

Construction	Heavy-duty steel
Drive Bay	External: NB CD-ROM x1 + NB FDD x1 Internal: 3.5" HDD x2
Air Filter	One front replaceable air filter
Cooling Fan	Two 8 cm fans at the front / One 5 cm blower fan at the back
Indicator	Power on/off x1, HDD x1
Switch	Power on/off x1, System reset x1
Speaker	One 8 speaker
Connector	Two USB connectors on the front panel One reserved COM port and one PRT 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	Net: 22 kg (48.5 lb) ; Gross: 25 kg (55.1 lb)
Backplane	PBP-06V4: Vertical 6-slot (4xPCI-X) PICMG backplane

Environment

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

Power Supply : ORION-3001PY

Maximum Output	300W PFC
Output Voltage & Current	+5V@30A, +12V@15A, -5V@0.3A, -12V@0.8A, +3.3V@2A, +5Vsb@2.0A
Input Voltage	90 ~ 264V AC full-range
Input Frequency	47 ~ 63 Hz
Input Current	7A @115V, 4A @230V
Efficiency	65%
MTBF Reliability	100,000 hrs
Certification	UL, cUL, TUV, CE, FCC

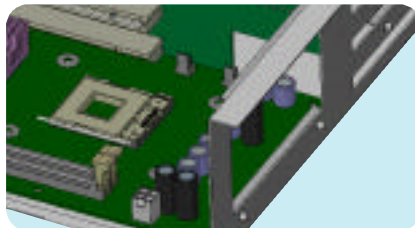
Feature	Benefits
<input type="checkbox"/> SBC fixing mechanism	<input type="checkbox"/> Secure SBC in the slot
<input type="checkbox"/> Cooling tunnel design between SBC and PSU	<input type="checkbox"/> Better ventilation to enhance system reliability
<input type="checkbox"/> Replaceable air filter	<input type="checkbox"/> For easy cleaning and exchange
<input type="checkbox"/> Detachable card cage	<input type="checkbox"/> For easy-to-install add-on cards
<input type="checkbox"/> New door lock	<input type="checkbox"/> The drive door can be opened without key, if it is not locked

What's New



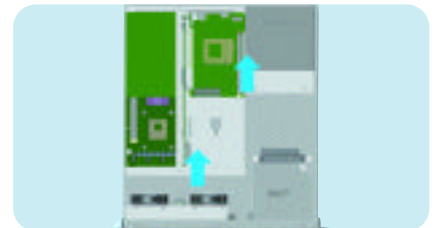
Lockable door for security

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



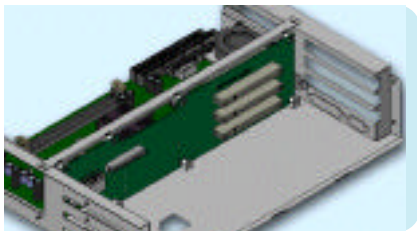
Fixing mechanism for SBC

Fixing mechanism is adopted to avoid SBC jumping out of slot by the force generated from heavy cooler under vibration or when dropped



Cooling tunnel

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



Card cage

PRC-2204 is equipped with a detachable card cage for ease of installation

Ordering Guide

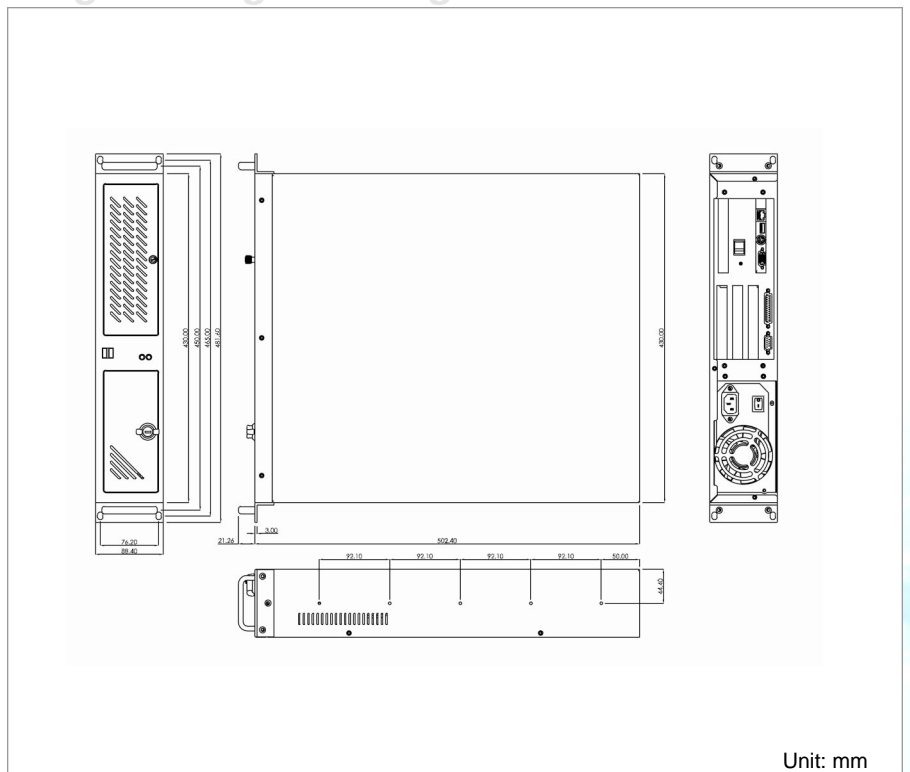
PRC-2204-6V4-3001PY

19" 2U rack-mount chassis with vertical 6-slot (4xPCI-X) PICMG 1.2 backplane and 300W PFC ATX power supply

PRC-2204A-6V564-3502

19" 2U rack-mount chassis with vertical 6-slot (4xPCI-X) PICMG 1.2 backplane and 330W redundant PFC ATX power supply

Engineering Drawing



▲ PRC-2204 Rear View