

RPC-500N/L

The Most Cost-effective 19" 4U Rack-mount PC Chassis



- ◆ Three 5.25" and two 3.5" drive bays for RAID 0, 1, 5 & CD-ROM
- ◆ Dual ball-bearing cooling fans for better ventilation
- ◆ Traditional rack-mount handles
- ◆ Dual card retainer positions and one K/B connector cap included
- ◆ One modularized function panel for single & dual systems
- ◆ ATX M/B applicable, especially for big-AT size M/B
- ◆ PS/2 redundant power supply installable

RPC-500N is the most cost-effective 19" 4U rack-mount chassis designed for various kinds of servers, Computer Telephony Integration (CTI) and telecommunication applications.

The rugged, sturdy, full-sealed and well-cooled steel chassis is specially designed to withstand heavy shocks, dust, humidity, trembling vibration and extremely high operating temperature in the harsh environment.

RPC-500L is extended to 51.5 cm (20.2") for the newest ATX server M/B, especially for dual Pentium® II (440BX) processor based M/B. With such a compact size, RPC-500L can be installed into a 60cm (23.6") rack-mount cabinet. These useful enhancements to meet the newest technology make RPC-500N/500L the best choice to integrate your rack-mount systems.

General

Construction

Heavy-duty steel with aluminum front panel

Air Filter

One replaceable filter

Cooling Fan

One 12cm (86.5cfm) one 8cm (35.3cfm) ball bearing cooling fan

Disk Drive Housing

3x5.25"+2x 3.5" (one for external FDD and one for internal HDD) drive bays

Card Retainer

Two locations for one card retainer

Switch

One for reset, one for power On/Off and one for K/B lock

Keyboard Connector

Standard 6-pin AT K/B connectors at the front and the rear panel

Keyboard Connector Cap

One cap at the front panel

Standard Color

Beige, black

Dimension

RPC-500N:

482(W) x 450(D) x 177(H) mm
19"(W) x 17.7"(D) x 7"(H)

RPC-500L:

482(W) x 515(D) x 177(H) mm
19"(W) x 20.3"(D) x 10.5"(H)

Weight

RPC-500N:

Net: 15.5Kg.(34.4 lb)
Gross: 17.5Kg.(38.9 lb)

RPC-500L:

Net: 15.5Kg.(34.4 lb)
Gross: 17.5Kg.(38.9 lb)

Backplane

14-Slot ISA backplane
14-Slot PICMG 12xPCI active backplane
14-Slot PICMG 7xPCI active backplane
14-Slot PICMG 4xPCI backplane
13-Slot PICMG dual-system backplane

Power Supply (ORION-330A)

Maximum Output

330W

Output Voltage & Current

+5V@30A, +12V@14A,
-5V@0.5A, -12V@1A

Input Voltage

95 - 132V/185 - 264V auto-range

Input Frequency

47Hz - 63Hz

Input Current

10A max./115V, 5A max./230V

Efficiency

Min. 70%

MTBF Reliability

Min. 50,000 hours at 25°C (70°F)

Safety

UL/CSA/TUV/FCC/CE

Environment

Operating Temperature Range

0 to +55°C

Storage Temperature Range

0 to +70°C

Relative Humidity

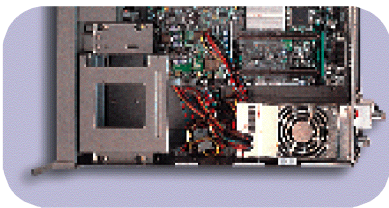
5 to 95% non-condensing

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Features	Benefits
• 19" 4U rack-mount chassis meets EIA RS-310C standard	• Easy to fit in a 19" cabinet from different vendors
• A Lockable front door with acrylic windows	• Good for dust-proof
• Power ON/OFF switch with LED indicator, reset and K/B lock switches inside the lockable door	• Avoid accidental reset for better running security
• Modularized function panel for one or dual systems	• Running status is visible
• Reserve LED holes for redundant PSU	• Easy for installing dual systems and redundant PSU
• Replaceable air filter	• Easy to keep stock and OEM project
• Two K/B DIN connectors on both front and rear panels	• Good for easy cleaning
• New K/B connector cap	• Convenient to connect to the keyboard
• Dual ball-bearing cooling fan	• Good for dust-proof at the front K/B connector
• Enhanced drive bracket to hold 3x5.25"+1x3.5" (external) and 1x3.5" drives (internal)	• Better ventilation to provide the system with higher reliability
• Shock-mount cushion for the drive bracket	• More flexibility to integrate varied systems
• Two adjustable positions for hold-down card retainers	• Suitable for installing RAID and CD-ROM drive
• Changeable modularized back panel for 14-slot ISA/PICMG BP or ATX M/B	• Suitable for harsh industrial environment
• Field replaceable power supply bracket for both normal PS/2 PSU and PS/2 type redundant PSU	• More flexibly and tightly to fix all the cards
	• Only one minute needed to change the back panel
	• Easy to change to different backplanes and keep stock
	• Only 3 minutes needed to change the defective PSU
	• Only 30 seconds to change the defective PSU module

• What's New



Redundant power supply

Our new PSU bracket can install either PS/2 type PSU or PS/2 redundant PSU to enhance its security for high-end systems.



3x5.25"+2x3.5" drive space

IRC-500N enhances the drive bracket to hold up to 3x5.25"+2x3.5" disk drives for floppy, hard disk and CD-ROM.



ATX motherboard

ATX mother board can be installed inside IRC-500N just by changing the modularized back panel.



Replaceable function panel

Two modular designed function panels are available for single or dual system display panels. Any OEM project is welcome.



Replaceable panel for PSU modules

IRC-500N is designed to install different power supply panels for PS/2 or redundant PS/2 type PSU.



Dual fans for better ventilation

IRC-500N is equipped with two ball bearing fans to have better ventilation and a replaceable filter to exclude dust.



Dual card retainers position

Two positions for card clamps to hold both PCI and ISA cards more tightly.



New rack-mount handle

The new handles are designed to hold the system tightly and distinguish from others.



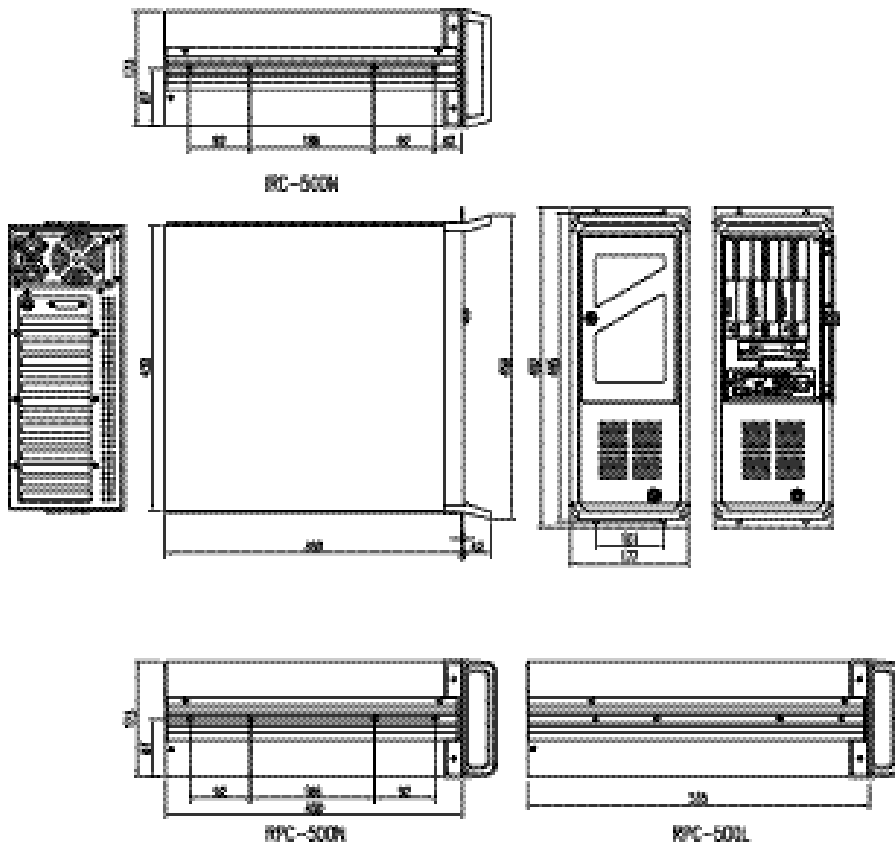
K/B connector cap

IRC-500N includes a keyboard connector cap to prevent dust.

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Engineering Drawing



Ordering Guide

PICMG Version

RPC-500N-14I-33A

19" 4U rack-mount chassis with 14-slot ISA backplane and 330W auto-range AT PSU

RPC-500N-14P4-33A

19" 4U rack-mount chassis with 14-slot PICMG BP and 330W auto-range AT PSU

RPC-500N-14A7-33A

19" 4U rack-mount chassis with 14-slot 7-PCI PICMG BACKPLANE and 330W auto-range AT PSU

M/B Version

RPC-500N-M-25

19" 4U rack-mount chassis for baby-AT M/B with 250W AT PSU

RPC-500N-MX-30X

19" 4U rack-mount chassis for ATX M/B with 300W ATX PSU

(Chassis can be changed to RPC-500N or RPC-500L)

Except the rack-mount handle, IRC-500N is the same as RPC-500N as the best selling 4U rack-mount chassis for CTI, industrial, scientific, engineering and server applications.



▲ IRC-500N