

# RPC-500NC/L

19" 4U industrial rack-mount chassis



RPC-500NC/L is designed for PICMG SBC/SHB and RPC-500NC/L-MX for ATX mother boards which has maximum 14-slot expansion for PICMG backplane. It also supports PSU in PS/2 form factor that makes RPC-500NC/L the best selling 4U Rack-mount chassis for CTI, Industrial, Science, Engineering and Server applications.

## FEATURES

- 5.25" x3 + 3.5" x2 drive bays for RAID 0, 1, 5 & CD-ROM
- Two ball-bearing cooling fans for better ventilation
- Traditional rack-mount handles
- Two card retainer positions
- Two USB ports on the control panel
- One PS/2 K/B connector cap included
- One modularized function panel for single (default) and dual (optional) systems
- ATX M/B applicable, especially for big-AT sized M/B (RPC-500L-MX)
- PS/2 redundant power supply installable

## ORDERING GUIDE

- **RPC-500NC**  
19" 4U rack-mount chassis for PICMG backplane
- **RPC-500NC/B**  
19" 4U black rack-mount chassis for PICMG backplane
- **RPC-500NC-MX**  
19" 4U rack-mount chassis for ATX M/B
- **RPC-500NC-MX/B**  
19" 4U black rack-mount chassis for ATX M/B
- **RPC-500L**  
19" 4U rack-mount chassis for PICMG backplane (Long size)
- **RPC-500L-MX**  
19" 4U rack-mount chassis for server board (Long size)

## GENERAL

Construction	Heavy-duty steel with aluminum front panel
Drive Bay	External: 5.25" x3, 3.5" FDD x1 Internal: 3.5" HDD x1
Card Retainer	Two locations for one card retainer
Air Filter	One replaceable filter
Cooling Fan	One 12cm and one 8cm ball-bearing cooling fans
Indicator	Power on/off x1, HDD x1
Switch	Power on/off x1, System reset x1, K/B lock x1
Connector	2 USB ports on the front panel
Standard Color	Beige, Black
Dimension	RPC-500NC: 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 7"(H)
Weight	RPC-500NC: Net: 14 kg (30.9 lb); Gross: 15 kg (33.1 lb) RPC-500L: Net: 17.5 kg (38.6 lb); Gross: 18.5 kg (40.8 lb)
Backplane	PBPE-13A8: 14-slot [PCIe (4), PCI (8), PCI-X (0)] active PCIMG 1.3 backplane PBPE-13A4: 14-slot [PCIe (8), PCI (4), PCI-X (0)] active PCIMG 1.3 backplane PBPE-12A9: 14-slot [PCIe (2), PCI (9), PCI-X (0)] active PCIMG 1.3 backplane PBPE-12P4: 14-slot [PCIe (8), PCI (4), PCI-X (0)] PCIMG 1.3 backplane PBPE-11A3: 14-slot [PCIe (8), PCI (3), PCI-X (0)] active PCIMG 1.3 backplane

## POWER SUPPLY

### PLUTO-D3501PJ optional

Maximum output	350W active PFC
Output Voltage & Current	+5V@12A; +12V1@18A; +12V2@18A; +3.3V@18A; -12V@0.3A, +5Vsb@2.5A
Input Voltage	90V ~ 264V AC, full range
Input Frequency	50 ~ 60Hz
Input Current	8A@115V, 8A@230V
Efficiency	> 80%
MTBF	100,000 hrs
EMI & Safety Approval	UL, TUV, CE, FCC, C B, VCCI, 80PLUS
Temperature/Humidity	Operating: 5 ~ 50°C, 20 ~ 85%RH Storage: -40 ~ 70°C, 10 ~ 95%RH
Dimension (WxDxH)	150 x 140 x 86 mm; 5.9" x 5.5" x 3.4"

## ENVIRONMENT

Operating Temperature	0 to +55°C
Storage Temperature	0 to +70°C
Relative Humidity	5% to 95%, non-condensing
Vibration	5~7 Hz: 0.5" double amplitude displacement 7~2000 Hz: 1.5g acceleration



# RPC-500NC/L

19" 4U industrial rack-mount chassis

FEATURE	BENEFITS
<ul style="list-style-type: none"> <li>■ A lockable front door with thumb lock</li> </ul>	<ul style="list-style-type: none"> <li>■ Good for dust-proof &amp; Running status visible</li> </ul>
<ul style="list-style-type: none"> <li>■ One power on/off switch with LED indicator, one reset and one K/B lock switches inside the lockable door</li> </ul>	<ul style="list-style-type: none"> <li>■ Avoid accidental reset for better running security</li> </ul>
<ul style="list-style-type: none"> <li>■ Front replaceable air filter</li> </ul>	<ul style="list-style-type: none"> <li>■ For installing dual systems and redundant power supplies more easily</li> </ul>
<ul style="list-style-type: none"> <li>■ Two USB ports on the front panel</li> </ul>	<ul style="list-style-type: none"> <li>■ For easy access</li> </ul>
<ul style="list-style-type: none"> <li>■ One PS/2 K/B connector on the front panel</li> </ul>	<ul style="list-style-type: none"> <li>■ Convenient to connect to the keyboard</li> </ul>
<ul style="list-style-type: none"> <li>■ One K/B connector cap</li> </ul>	<ul style="list-style-type: none"> <li>■ Good for dust-proof for the front accessible K/B connector</li> </ul>
<ul style="list-style-type: none"> <li>■ Two ball-bearing cooling fans</li> </ul>	<ul style="list-style-type: none"> <li>■ Better ventilation to provide the system with higher reliability</li> </ul>
<ul style="list-style-type: none"> <li>■ Enhanced drive bracket to hold 3 x 5.25" + 1 x 3.5" (external) and 1 x 3.5" drives (internal)</li> </ul>	<ul style="list-style-type: none"> <li>■ For integrating varied systems with higher flexibility</li> </ul>
<ul style="list-style-type: none"> <li>■ Shock-resistant cushion for the drive bracket</li> </ul>	<ul style="list-style-type: none"> <li>■ Suitable for installing RAID and CD-ROM drive</li> </ul>
<ul style="list-style-type: none"> <li>■ Two adjustable positions for hold-down card retainers</li> </ul>	<ul style="list-style-type: none"> <li>■ For fixing all the cards more flexibly and tightly</li> </ul>
<ul style="list-style-type: none"> <li>■ Changeable modularized back panel for 14-slot ISA/PICMG backplane or ATX M/B</li> </ul>	<ul style="list-style-type: none"> <li>■ Only one minutes to change the back panel</li> <li>■ Easy to change to different backplanes and keep stock</li> </ul>
<ul style="list-style-type: none"> <li>■ Field replaceable power supply bracket for both normal PS/2 power supply and PS/2 type redundant power supply</li> </ul>	<ul style="list-style-type: none"> <li>■ Only three minutes to change defective power supply</li> <li>■ Only 30 seconds to change the defective PSU module</li> </ul>

## MECHANICAL DRAWING

