

AREMO-4196

The Best Cost-Performance 19" 4U Height Intel® Desktop Mother Board Based Rack-mount Computer



AREMO-4196 and AREMO-4196-MX is 19" 4U Rack-mount chassis and designed for PICMG SBC/SHB and ATX form factor with stylish front panel design, up to 14-slot expansion for PICMG backplane. AREMO-4196 series can support PS/2 PSU, two USB interface on front panel and build with replaceable air filter. AREMO-4196 series is suitable in several vertical markets, like Factory and Server applications.

FEATURES

- Three 5.25" and one external 3.5" HDD drive bays for RAID 0, 1, 5 & CD-ROM
- Two USB ports on the front panel
- Dual 12cm ball-bearing cooling fans for better ventilation
- Two card retainer positions
- PS/2 or redundant power supply installable
- ATX M/B applicable (AREMO-4196-MX)
- Easily detached and washable air filter
- Equipped with fan control card to detect fan failure

ORDERING GUIDE

- **AREMO-4196**
19" 4U rack-mount chassis for PICMG version
- **AREMO-4196/B**
19" 4U black rack-mount chassis for PICMG version
- **AREMO-4196-MX**
19" 4U rack-mount chassis for M/B version
- **AREMO-4196-MX/B**
19" 4U black rack-mount chassis for M/B version

GENERAL

Construction	Heavy-duty steel with aluminum front panel
Drive Bay	Internal: 3x 5.25", 1x 3.5"HDD Internal: 2x 3.5"
Card Retainer	Three locations for one card retainer
Air Filter	Two replaceable air filter
Cooling Fan	Two 12cm ball-bearing cooling fans
Indicator	1x Power On/Off, 1x HDD
Switch	1x Power On/Off, 1x System reset
Speaker	One 8Ω speaker
Connector	T2x USB ports on the front panel
Standard Color	Silver, Black
Dimension	482(W) x 481(D) x 177(H) mm; 19"(W) x 18.1"(D) x 7"(H)
Weight	Net: 13.5 kg (29.8 lb); Gross: 14.5 kg (32 lb)
Backplane	PBPE-13A8: 14-slot [PCIe (4), PCI (8), PCI-X (0)] active PICMG1.3 backplane PBPE-13A4: 14-slot [PCIe (8), PCI (4), PCI-X (0)] active PICMG1.3 backplane PBPE-12A9: 14-slot [PCIe (2), PCI (9), PCI-X (0)] active PICMG1.3 backplane PBPE-12P4: 14-slot [PCIe (8), PCI (4), PCI-X (0)] PICMG 1.3 backplane PBPE-11A3: 14-slot [PCIe (8), PCI (3), PCI-X (0)] active PICMG1.3 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, CB, VCCI, 80PLUS
Temperature/Humidity	Operating: 5°C ~ 50°C, 20% ~ 85%RH Storage: -40°C ~ 70°C, 10% ~ 95%RH
Dimension (WxDxH)	150 x 140 x 86 mm; 5.9" x 5.5" x 3.4"

ENVIRONMENT

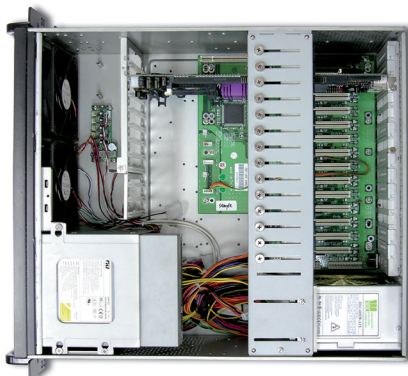
Operating Temperature	0°C ~ 55°C
Storage Temperature	-20°C ~ 80°C
Relative Humidity	5% ~ 95%, non-condensing
Vibration	5~7 Hz: 0.5" double amplitude displacement 7~2000 Hz: 1.5g acceleration

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FEATURE	BENEFITS
<ul style="list-style-type: none"> A lockable front door with thumb lock 	<ul style="list-style-type: none"> Good for dust-proof & security
<ul style="list-style-type: none"> One power on/off switch and one system reset button on the front panel behind the lockable door 	<ul style="list-style-type: none"> Avoid accidental reset for better running security
<ul style="list-style-type: none"> Fan control board 	<ul style="list-style-type: none"> Detect fan fail and Alarm
<ul style="list-style-type: none"> Front replaceable air filter 	<ul style="list-style-type: none"> For easy cleaning and install
<ul style="list-style-type: none"> Equipped two USB ports 	<ul style="list-style-type: none"> Efficient Access
<ul style="list-style-type: none"> Dual 12cm ball-bearing cooling fans 	<ul style="list-style-type: none"> Better ventilation to provide the system with higher reliability
<ul style="list-style-type: none"> Enhanced drive bracket to hold three 5.25" and two 3.5" HDD drives (internal) 	<ul style="list-style-type: none"> For integrating varied systems with higher flexibility Suitable for installing RAID and CD-ROM drive
<ul style="list-style-type: none"> Shock-resistant cushion for the drive bracket 	<ul style="list-style-type: none"> Suitable for harsh industrial environment
<ul style="list-style-type: none"> Two adjustable positions for hold-down card retainers 	<ul style="list-style-type: none"> For fixing all the cards more flexibly and tightly
<ul style="list-style-type: none"> Changeable modularized back panel for 14-slot ISA/PICMG backplane or ATX motherboard 	<ul style="list-style-type: none"> Only one minute to change the back panel Easy to change to different backplanes and keep stock
<ul style="list-style-type: none"> Field replaceable power supply bracket for both normal PS/2 power supply and PS/2 type redundant power supply 	<ul style="list-style-type: none"> Only three minutes to change the defective power supply Only thirty seconds to change the defective PSU module

REFINEMENT



AREMO-4196



AREMO-4196-MX



MECHANICAL DRAWING

