AICSYS

ADVANCED INDUSTRIAL COMPUTER SYSTEMS

2025 CATALOG











The Company



AICSYS has been manufacturing Industrial Chassis and Specialized Single Board Computers for more than seventeen years and has been a major supplier of OEM/ODM IPC Products to many of the leading IPC companies in Europe, Asia, and North America. Private labeling and behind the scenes support, has been AICSYS' primary function. Recent changes in the global IPC Market has caused AICSYS to re-evaluate its' position. As a direct result, AICSYS has released a line of products which bear the AICSYS name and will focus primarily on Ruggedized Industrial Chassis and a highly focused line of Single Board Computers.

AICSYS has expanded its' manufacturing capabilities to include sites in Taiwan and Shen Zhen, China. The Chassis facilities have over 3000 square meters of manufacturing space and house (4) NCT Machines, (9) CNC Machines, and several other automated pieces of fabrication machinery. With the addition of these facilities, AICSYS has positioned itself as a major player in the IPC Market through cost effective and superior quality products. AICSYS-USA is responsible solely for design & development, while AICSYS-Taipei facilitates all Marketing, Sales Distribution, and Customer Service for the Asian & European Markets, including OEM/ODM products for local vendors.



No matter how many features an SBC may have, without a well-designed Chassis your solution is not impressive at all. AICSYS capitalizes on previous Chassis development experience for the next generation of products, enhancing reliability, durability and safety features. To provide our customers complete solutions, AICSYS has integrated several "Ready-to-Use" products such as, the CYCLOPS Series - 1U LCD/Keyboard Drawers and WEBSTER – All-in-One Servers. While Industrial Chassis and Systems remain the foundation of the AICSYS product line, OEM/ODM projects allow our R & D Team to shine. Simple modifications such as minor BIOS modifications, changing the color of a chassis, and adding a company logo are just a few services AICSYS offers its customers. AICSYS also provides a complete design service to customers as well. Our team of Design Engineers will manage your project from conception to post production support. At AICSYS we have the unique ability to produce both large and small quantity OEM products.

Producing the highest quality products possible is our number one goal at AICSYS. To compromise the integrity of a product in order to beat the competition to market is something we at AICSYS do not believe in. Rushing a product through a production cycle can result in catastrophic failures, our approach to design, development & production is an extremely cautions one. Each product is rigidly stress tested as well as field tested prior to release. Utilizing state of the art technology to design and manufacture our products ensures our customers receive the highest quality products available. Experience today the advantages of having over seventeen years of manufacturing, engineering, and customer support that AICSYS can bring to your next project.

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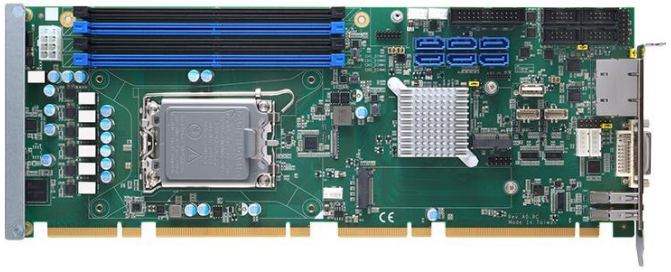
Accessories 115

PICMG 1.3 Single Board Computer



SBC-6512

Industrial Full-size PICMG 1.3 SBC supports 12th Gen. Intel® Core™ Processors with Intel® R680E/H610E PCH, SATA3, M.2 Key, USB 3.2, Dual LAN and DVI-I



Features

- Supports Intel 12th Gen. Core Processors
- Dual Gigabit Ethernet supported
- (6) SATA-600 with RAID 0/1/5/10 (R680E)
- Watchdog & Hardware Monitor function
- Supports Intel® AMT and vPro (R680E)

CPU

- LGA1700 for 12th Generation Intel® Core™ Processors, up to 125W

Chipset

- Intel® R680E/H610E

System Memory

- (4) DDR5 4400 un-buffered DIMM max. up to 128GB (R680E supports ECC)

Display Interface

- Intel® HD Graphics
- (1) DVI-I, (1) DisplayPort++ (onboard header)

Ethernet

- 1st port with Intel® i225-LM with AMT and vPro
- 2nd port with Intel® i225-V
- support WOL, PXE Boot ROM

Audio

- Optional Audio Codec with external module

TPM

- Optional TPM 2.0 module

I/O Interface

- (2) RS232 & (2) RS232/422/485 serial ports
- (2) USB 3.2 Gen.2x1 & (4) USB 3.2 Gen.1, (3) USB 2.0 Ports
- R680E: (6) SATA-600 support RAID 0/1/5/10
- H610E: (4) SATA-600
- M.2 Key M 2280, PCIe 4.0 x4 signal
- (1) PS/2 keyboard & (1) PS/2 mouse & (1) LPT

Expansion Interface

- (1) PCIe x16, Gen. 4
- (1) PCIe x4 or (4) PCIe x1, Gen. 4
- (4) 32 bit PCI bus masters

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 338mm x 126mm

Ordering Information

SBC-6512 2GND-R	LGA1700 Socket 12th Generation Intel® Core™ processors, Intel® R680E PCH, USB 3.2, SATA 3.0, Dual LAN, DVI-I
SBC-6512 2GND-H	Intel® H610E PCH
AAC-93242	Optional Audio Kit

SBC-6511S

Industrial Full-size PICMG 1.3 SBC supports 8/9th Gen. Intel® Core™ Processors with Intel® C246/Q370/H310 PCH, SATA3, M.2 Key, USB 3.1, Dual LAN and DVI-I



Features

- Supports Intel 8/9th Gen. Core Processors
- Dual Gigabit Ethernet supported
- (6) SATA-600 with RAID 0/1/5/10 (C246/Q370)
- Watchdog & Hardware Monitor function
- Supports Intel® AMT and vPro (C246/Q370)

CPU

- LGA1151 for 8/9th Generation Intel® Core™ Processors

Chipset

- Intel® C246/Q370/H310

System Memory

- (2) 288-pin DDR4 2400/2666 un-buffered DIMM max. up to 32GB (C246 supports ECC)

Display Interface

- Intel® HD Graphics
- (1) DVI-I

Ethernet

- 1st port with Intel® i219LM with AMT 11 support
- 2nd port with Intel® i211AT
- support WOL,RPL/PXE Boot ROM

Audio

- Optional Audio Codec with external module

TPM

- Optional TPM 2.0 module

I/O Interface

- (2) RS232 & (2) RS232/422/485 serial ports
- C246/Q370: (2) USB 3.1 Gen.2 & (4) USB 3.1 Gen.1, (4) USB 2.0 Ports
- H310: (4) USB3.1 Gen. 2 & (4) USB 2.0 Ports
- C246/Q370: (6) SATA-600 support RAID 0/1/5/10
- H310: (4) SATA-600
- M.2 Key M 2280, PCIe x4 signal
- (1) PS/2 keyboard & (1) PS/2 mouse & (1) LPT

Expansion Interface

- Edge Connector A: (1) PCIe x16, Gen. 3 Edge Connector B: (1) PCIe x4 or (4) PCIe x1, Gen. 2 (4) 32 bit PCI bus masters

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

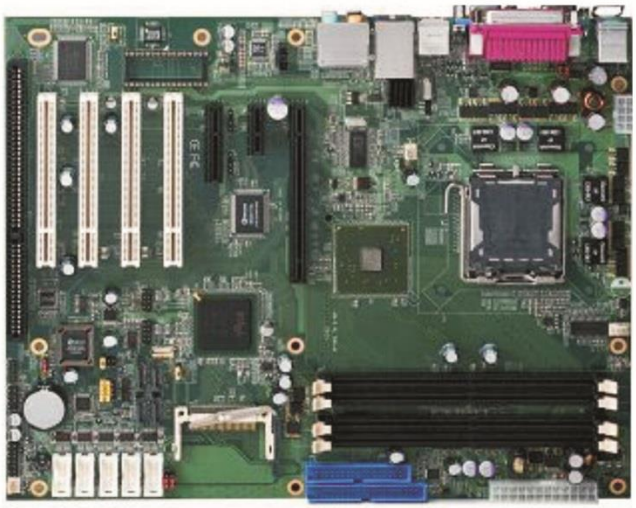
Dimension

- 338mm x 126mm

Ordering Information

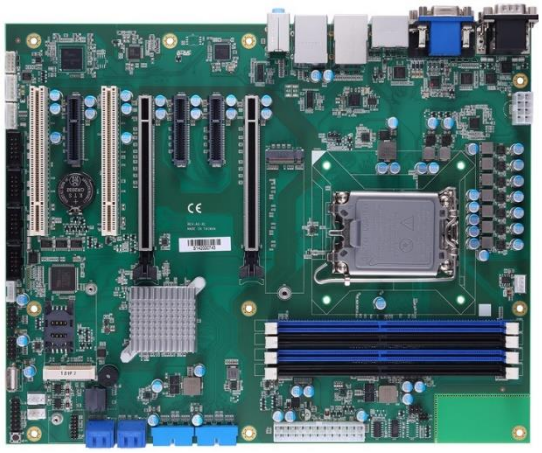
SBC-6511S 2GND-Q	LGA1151 Socket 8/9th Generation Intel® Core™ processors, Intel® Q370 PCH, USB 3.1, SATA 3.0, Dual LAN, DVI-I
SBC-6510S 2GND-C	Intel® C246 PCH
SBC-6510 2GND-H	Intel® H310 PCH
AAC-93242	Optional Audio Kit

Industrial Motherboard Computer



MBC-6524

Industrial ATX Industrial Motherboard with LGA1700 Socket 12/13/14th Gen Intel® Core™ Processors, Intel® R680E, DDR4, USB 3.2, SATA RAID, Dual LANs, VGA/DVI/DisplayPort/HDMI



Features

- Supports Intel 12/13/14th Gen. Core CPU
- Dual Gigabit Ethernet supported
- (4) SATA-600 with RAID 0, 1, 5 ,10
- Supports M.2 Key M 2280
- HDMI/DVI/Display Port/VGA multiple outputs

CPU

- Socket LGA1700 supports 12/13/14th Gen. Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processors (up to 125W)

Chipset

- Intel® R680E

System Memory

- (4) 288-pin Long-DIMM dual channel DDR4-3200, max. up 128 GB
- Supports ECC/Non-ECC un-buffered

Display Interface

- Intel® HD Graphics
- (1) HDMI, (1) VGA, (1) DVI-D and (1) DisplayPort

Storage

- (4) SATA-600 with RAID 0, 1, 5, 10
- (1) M.2 M Key 2280 supports PCIe x4 via CPU

Ethernet

- (2) Gigabit LAN with Intel® i255-LM and i211-AT
- supports Wake-on-LAN, PXE Boot ROM

Audio

- Built-in HD Audio Codec with Realtek ALC888

I/O Interface

- (4) RS232 & (2) RS232/422/485 serial ports
- (8) USB 3.2 Gen2x1
- (5) USB 2.0 ports (pin header, 180D type A)
- (1) 8-bit digital I/O interface
- (1) PS/2 keyboard (internal box header)
- Optional TPM 2.0 module

Onboard Expansion

- (2) PCIe Gen4 x16 slot ((1) x16 or (2) x8)
- (2) PCIe x4 slot open ended ((1) Gen3 & (2) Gen4)
- (1) PCIe Mini Card slot
- (2) 32-bit PCI slot, default clock is 33 Mhz

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 305mm x 244mm

Ordering Information

MBC-6524A2GHP-R680	LGA1700 Socket 12/13/14th Gen. Intel® Core™ processors, Intel® R680E

MBC-6522

Industrial ATX Industrial Motherboard with LGA1200 Socket 10th Gen Intel® Core™ Processors, Intel® W480E, DDR4, USB 3.2, SATA RAID, Dual LANs, VGA/DVI/DP/HDMI



Features

- Supports Intel 10th Gen. Core and Xeon W CPU
- Dual Gigabit Ethernet supported
- (4) SATA-600 with RAID 0, 1, 5 ,10
- Supports M.2 Key M 2280 with NVMe
- HDMI/DVI/Display Port/VGA multiple outputs

CPU

- Socket LGA1200 supports Xeon W, 10th Gen. Intel® Core™ i7/i5/i3, Pentium® or Celeron® processors (up to 125W)

Chipset

- Intel® W480E

System Memory

- (4) 288-pin Long-DIMM dual channel DDR4-2933, max. up 128 GB
- Xeon W supports ECC RAM

Display Interface

- Intel® HD Graphics
- (1) HDMI, (1) VGA, (1) DVI-D and (1) DisplayPort

Storage

- (4) SATA-600 with RAID 0, 1, 5, 10
- (1) M.2 Key M 2280 (signal: PCIe x4/SATA)

Ethernet

- (2) Gigabit LAN with Intel® i219LM and i211-AT
- supports Wake-on-LAN, PXE Boot ROM

Audio

- Built-in HD Audio Codec with Realtek ALC888

I/O Interface

- (2) RS232 & (2) RS232/422/485 serial ports
- (2) USB 3.2 Gen2 (rear I/O)
- (4) USB 3.2 Gen1 (rear I/O, internal)
- (8) USB 2.0 ports (pin header, 180D type A)
- (1) 8-bit digital I/O interface
- (1) PS/2 keyboard (internal box header)

Onboard Expansion

- (1) PCIe x16 slot (signal: x16 or x8)
- (1) PCIe x16 slot (signal: x0 or x8)
- (3) PCIe x4 slots
- (1) PCIe x4 slot with x1 signal
- (1) PCI slot

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 305mm x 244mm

Ordering Information

MBC-6522A2GHP-W480	LGA1200 Socket 10th Gen. Intel® Core™ processors & Xeon W, Intel® W480E chipset

MBC-6619

Industrial ATX Motherboard supports Intel® 10th Gen. Core™ and Xeon W series, Intel® W480E/Q470E PCH, USB 3.1, SATA 3.0 with RAID, (2) LAN, VGA/DP++/HDMI, Audio



Features

- Supports Intel 10th Gen. Core and Xeon W CPU
- (2) Gigabit Ethernet supported
- (4) SATA 3.0 with RAID 0/1/5/10
- Watchdog & Hardware Monitor function
- (1) VGA ,(1) DisplayPort and (1) HDMI

CPU

- LGA1200 socket 10th generation Intel® Core™ i9/i7/i5/i3, Xeon W series, Pentium® & Celeron® processors

Chipset

- Intel® W480E/Q470E PCH

System Memory

- (4) 288-pin DIMM dual channel DDR4 2666/2933 max. up 128 GB (ECC for Xeon)

Display Interface

- Intel® HD Gen. 9 Graphics
- (1) VGA, (1) DisplayPort++ and (1) HDMI

Storage

- (4) SATA 3.0 with RAID 0,1,5,10
- (1) M.2 2242/2260/2280 M key (PCIe Gen3 x4 NVMe/SATA/Intel® Optane Memory/intel RST)
- (1) M.2 2242/2260/2280 M key (PCIe Gen3 x4 NVMe/Intel® Optane Memory/intel RST)

Ethernet

- (2) Gigabit LAN with Intel® I211AT and i219LM

Audio

- Built-in HD Audio Codec with Realtek ALC888

I/O Interface

- (4) RS232 & (2) RS232/422/485 serial ports
- (4) USB 3.2 Gen.2 and (2) USB 3.2 Gen.1 ports
- (6) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (1) LPC & (1) SMBus

Onboard Expansion

- (2) PCIe x16 (Gen 3) (1 x16 signal or 2 x8 signals)
- (2) PCIe x4 (Gen 3) & (1) PCIe x1 (Gen 3)

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

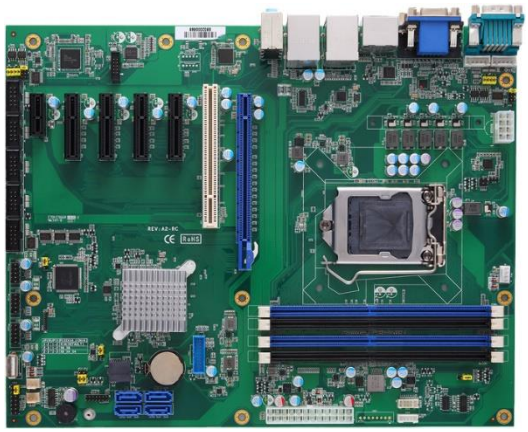
- 305mm x 244mm

Ordering Information

MBC-6619A2GPR-W480	Intel® Core™ and Xeon W, Intel® W480E PCH, USB 3.2, SATA 3.0, (2) LAN, VGA/DP/HDMI, Audio
MBC-6619A2GPR-Q470	Intel® Core™, Intel® Q470E PCH, USB 3.2, SATA 3.0, (2) LAN, VGA/DP/HDMI, Audio

MBC-6521

Industrial ATX Industrial Motherboard with LGA1151 Socket 8th/9th Gen Intel® Core™ Processors, Intel® Q370/C246, DDR4, USB 3.1, SATA RAID, Dual LANs, VGA/DVI/DisplayPort/HDMI



Features

- Supports Intel 8th/9th Gen. Core and Xeon E CPU
- Dual Gigabit Ethernet supported
- (4) SATA-600 with RAID 0, 1, 5 ,10
- Watchdog & Hardware Monitor function
- HDMI/DVI/Display Port/VGA multiple outputs

CPU

- Socket LGA1151 supports Xeon E, 8th/9th Gen. Intel® Core™ i7/i5/i3, Pentium® or Celeron® processors

Chipset

- Intel® Q370/C246 PCH

System Memory

- (4) 288-pin Long-DIMM dual channel DDR4-2666/2400, max. up 128 GB
- C246 with Xeon E supports ECC RAM

Display Interface

- Intel® HD Graphics
- (1) HDMI, (1) VGA, (1) DVI-D and (1) DisplayPort

Ethernet

- (2) Gigabit LAN with Intel® i219LM and i211-AT
- supports Wake-on-LAN, PXE Boot ROM

Audio

- Built-in HD Audio Codec with Realtek ALC662

I/O Interface

- (4) RS232 & (2) RS232/422/485 serial ports
- (2) USB 3.1 Gen2 (rear I/O)
- (4) USB 3.1 Gen1 (rear I/O, internal)
- (7) USB 2.0 ports (pin header, 180D type A)
- (1) 8-bit digital I/O interface
- (4) SATA-600 with RAID 0, 1, 5, 10
- (1) SMBus

Onboard Expansion

- (1) PCIe x16 Gen3 slot
- (4) PCIe x4 slots
- (1) PCIe x1 slot
- (1) PCI slot

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

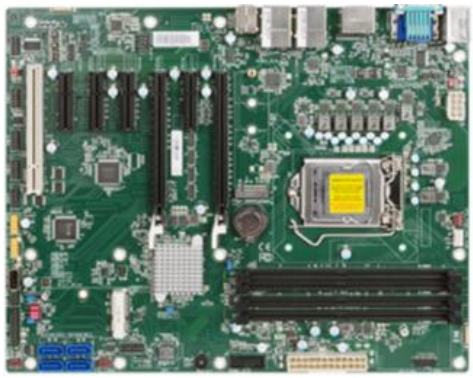
- 305mm x 244mm

Ordering Information

MBC-6521A2GHP-Q370	LGA1151 Socket 8th/9th Gen. Intel® Core™ processors, Intel® Q370 PCH
MBC-6521A2GHP-C246	LGA1151 Socket Xeon E processors, Intel® C246 PCH

MBC-6615

Industrial ATX Motherboard supports Intel® 9th Gen. Core™ and Xeon E 2200 series, Intel® C246/Q370 PCH, USB 3.1, SATA 3.0 with RAID, (2) LAN, VGA/(2) DP++, Audio



Features

- Supports Intel 9th Gen. Core and Xeon E CPU
- (2) Gigabit Ethernet supported
- (4) SATA 3.0 with RAID 0/1/5/10
- Watchdog & Hardware Monitor function
- (1) VGA and (2) DisplayPort

CPU

- LGA1151 socket 9th generation Intel® Core™ i9/i7/i5/i3, Xeon E 2278GE/2226GE, Pentium® & Celeron® processor

Chipset

- Intel® C246/Q370 PCH

System Memory

- (4) 288-pin DIMM dual channel DDR4 2400/2666 max. up 128 GB (ECC for Xeon)

Display Interface

- Intel® HD Gen. 9 Graphics
- (1) VGA, (2) DisplayPort++

Storage

- (4) SATA 3.0 (1 SATA shared with mini PCIe (SATA), default at mini PCIe) with RAID 0,1,5,10
- (1) M.2 2242/2260/2280 M key (PCIe Gen3 x4 NVMe)

Ethernet

- (2) Gigabit LAN with Intel® I211AT and i219LM

Audio

- Built-in HD Audio Codec with Realtek ALC888

I/O Interface

- (4) RS232 & (2) RS232/422/485 serial ports
- (2) USB 3.1 Gen.2 and (4) USB 3.1 Gen.1 ports
- (6) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (1) LPC & (1) SMBus

Onboard Expansion

- (2) PCIe x16 (Gen 3) (1 x16 signal or 2 x8 signals)
- (3) PCIe x4 (Gen 3) & (1) PCIe x1 (Gen 3)

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 305mm x 244mm

Ordering Information

MBC-6615A2GPR-C246	Intel® Core™ and Xeon E, Intel® C246 PCH, USB 3.1, SATA 3.0, (2) LAN, VGA/DP, Audio
MBC-6615A2GPR-Q370	Intel® Core™, Intel® Q370 PCH, USB 3.1, SATA 3.0, (2) LAN, VGA/DP, Audio

MBC-6620

Industrial Micro-ATX Motherboard supports Intel® 9th Gen. Core™ and Xeon E 2200 series, Intel® C246/Q370 PCH, SATA 3.0 with RAID, (2) LAN, DP++/DVI-D/HDMI, USB3.1, Audio



Features

- Supports Intel 9th Gen. Core and Xeon E CPU
- (2) Gigabit Ethernet supported
- (4) SATA 3.0 with RAID 0/1/5/10
- Watchdog & Hardware Monitor function
- (1) HDMI, (1) DisplayPort and (1) DVI-D

CPU

- LGA1151 socket 9th generation Intel® Core™ i9/i7/i5/i3, Xeon E 2278GE/2226GE, Pentium® & Celeron® processor

Chipset

- Intel® C246/Q370 PCH

System Memory

- (4) 288-pin DIMM dual channel DDR4 2400/2666 max. up 128 GB (ECC for Xeon)

Display Interface

- Intel® HD Gen. 9 Graphics
- (1) HDMI, (1) DisplayPort and (1) DVI-D

Storage

- (6) SATA 3.0 with RAID 0,1,5,10
- (1) M.2 2230 E key (PCIe x1/USB2.0/intel CNVi)
- (1) M.2 2242/2260/2280 M key (PCIe Gen3 x 4 NVMe)

Ethernet

- (2) Gigabit LAN with Intel® I211AT and i219LM

Audio

- Built-in HD Audio Codec with Realtek ALC888

I/O Interface

- (2) RS232 & (2) RS232/422/485 serial ports
- (4) USB 3.1 Gen.2 and (2) USB 3.1 Gen.1 ports
- (6) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (1) LPC & (1) SMBus

Onboard Expansion

- (2) PCIe x16 (Gen 3) (1 x16 signal or 2 x8 signals)

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

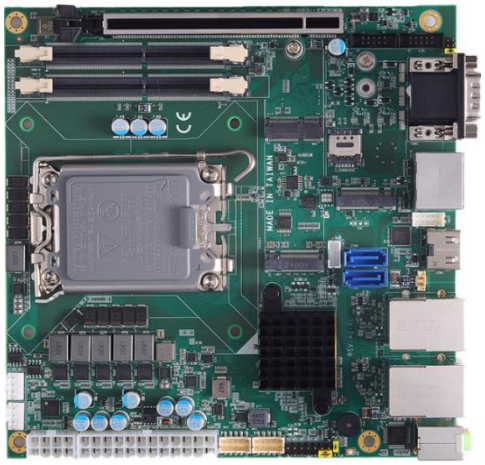
- 244mm x 244mm

Ordering Information

MBC-6620A2GPR-C246	Intel® Core™ and Xeon E, Intel® C246 PCH, USB 3.1, SATA 3.0, (2) LAN, HDMI/DP/DVI, Audio
MBC-6620A2GPR-Q370	Intel® Core™, Intel® Q370 PCH, USB 3.1, SATA 3.0, (2)

MBC-6525

Industrial Mini-ITX motherboard with LGA1700 Socket 12/13/14th Gen Intel® Core™ Processor, Intel® Q670E, (2) HDMI, DisplayPort++, eDP, (2) GbE LAN, and HD Audio



Features

- Support Intel® 12/13/14th Gen. Core Processors
- Dual Gigabit Ethernet supported
- (2) SATA3, (1) M.2 Key M, (1) M.2 Key E
- DC 12V~24V input
- HDMI/DisplayPort multiple outputs

CPU

- LGA1700 12/13/14th gen Intel® Core™ i9/i7/i5/i3, Intel® Pentium® processors Gold/Celeron® processors (up to 65W)

Chipset

- Intel Q670E

System Memory

- (2) 260-pin SO-DIMM dual channel DDR4 3200, Max up 64 GB

Storage

- (2) SATA3 supports RAID 0,1
- (1) M.2 Key M 2280 (supports NVMe)

Display Interface

- Intel® UHD Graphics 700 series engine
- (2) HDMI & (1) Displayport++
- (1) eDP

Audio

- HD Audio as Mic-in/Line-out with Realtek ALC888S

TPM

- Infenon SLB9670 T2.0 with TPM 2.0 compliant

Ethernet

- (2) 10/100/1000/2500 Mbps Ethernet with Intel® I226-LM and with Wake-on-LAN and PXE Boot ROM supported

I/O Interface

- (4) RS232 RS232/422/485 serial ports
- (4) USB 3.2 and (4) USB 2.0 ports
- (1) 8-bit digital I/O interface

Onboard Expansion

- (1) PCIe x16
- (1) M.2 Key E 2230
- (1) M.2 Key B 3052/3042

Power Requirement

- Standard ATX connector

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

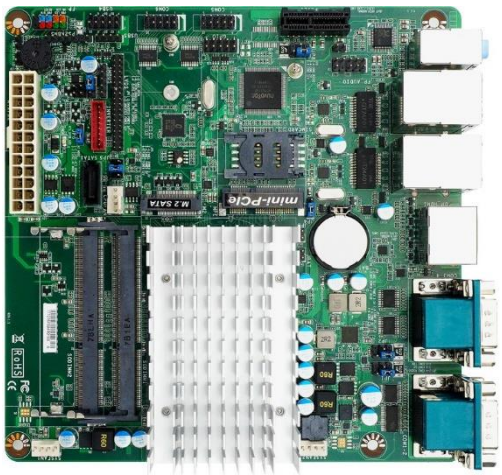
- 170mm x 170mm

Ordering Information

MBC-6525A2GNL	Mini-ITX with LGA1700 12/13/14th gen Intel® Core™ processor, HDMI, , DP++, USB 3.2, M.2, dual GbE LAN, HD audio

MBC-4J03

LGA1155 Socket Intel® Core™ i7/ i5/ i3/ Celeron® Mini ITX SBC with Intel® Q77 PCH, HDMI/DVI-I/LVDS, Dual LANs and USB 3.0



Features

- Intel® Apollo Lake processor
- Dual Gigabit Ethernet supported
- (1) SATA3 & (1) M.2 Socket
- Watchdog & Hardware Monitor function
- VGA/LVDS/HDMI multiple outputs

CPU

- Intel® Pentium® processor N4200 (up to 2.24 GHz) quad core SoC (Apollo Lake)
- Intel® Celeron® Processor N3350 (up to 2.4GHz) Dual Core SoC (Apollo Lake)

System Memory

- (2) 204-pin SO-DIMM dual channel DDR3L-1866, Max up 8 GB

Display Interface

- Intel® HD Graphics
- (1) HDMI 1.4 & (1) LVDS & (1)DP

Ethernet

- (2) Realtek 8111H Gigabit Ethernet Controllers

Audio

- HD Audio with Realtek ALC662

Storage

- (1) SATA3 with 6.0Gb/s
- (1) M.2 Key 2242/2260

I/O Interface

- (5) RS232 & (1) RS232/422/485 serial ports
- (4) USB 3.0 and (3) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (1) SIM slot, (1) SMBus

Onboard Expansion

- (1) Full-size PCI Express mini card

Power Requirement

- Standard ATX power supply

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 170mm x 170mm

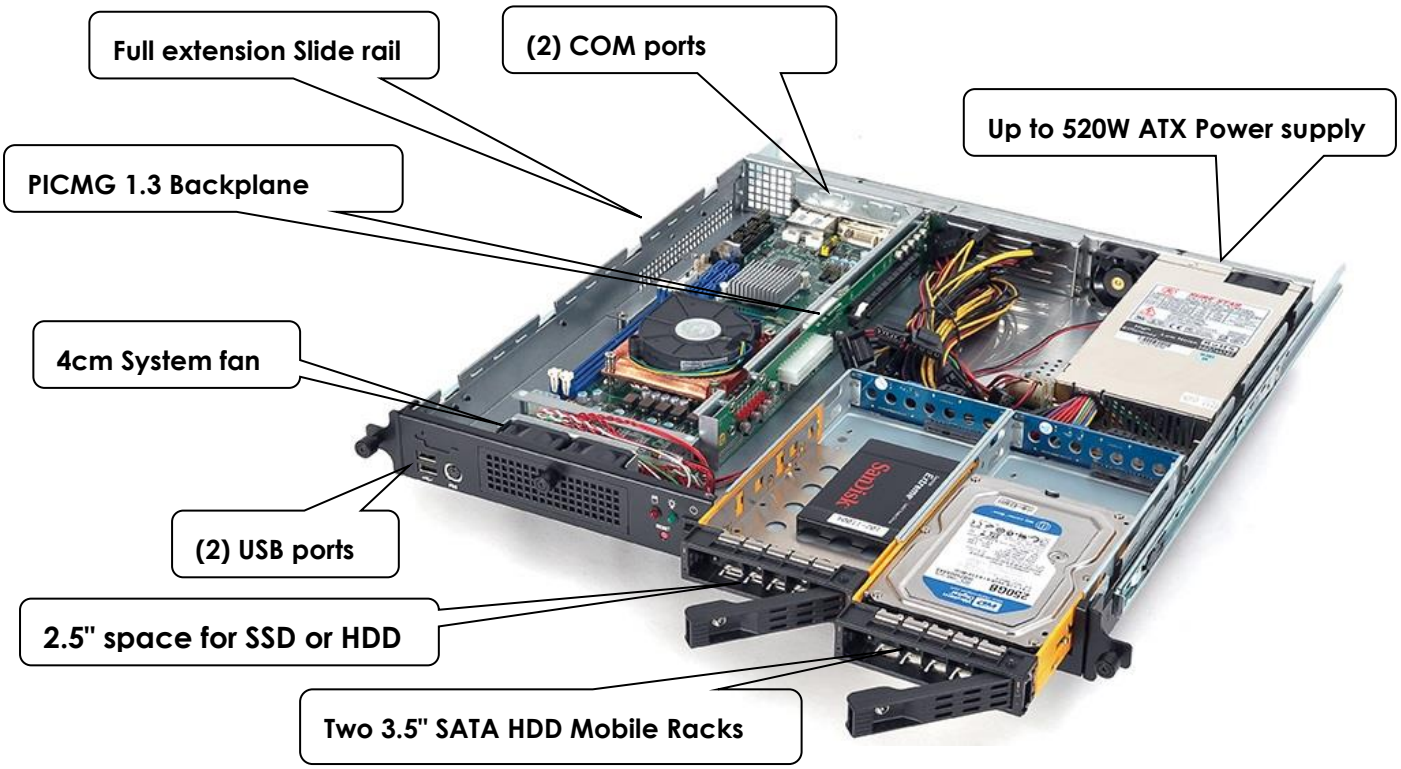
Ordering Information

MBC-4J03A2GHL-N4200	Intel® Pentium® N4200 mini ITX SBC, HDMI/ LVDS/DP, Dual GbE LAN, SATA3, USB 3.0, PCI, PCI express mini card and HD Audio
MBC-4J03A2GHL-	Onboard Intel® Celeron®

1U Ruggedized Industrial Chassis



RCK-103BR2



Introduction

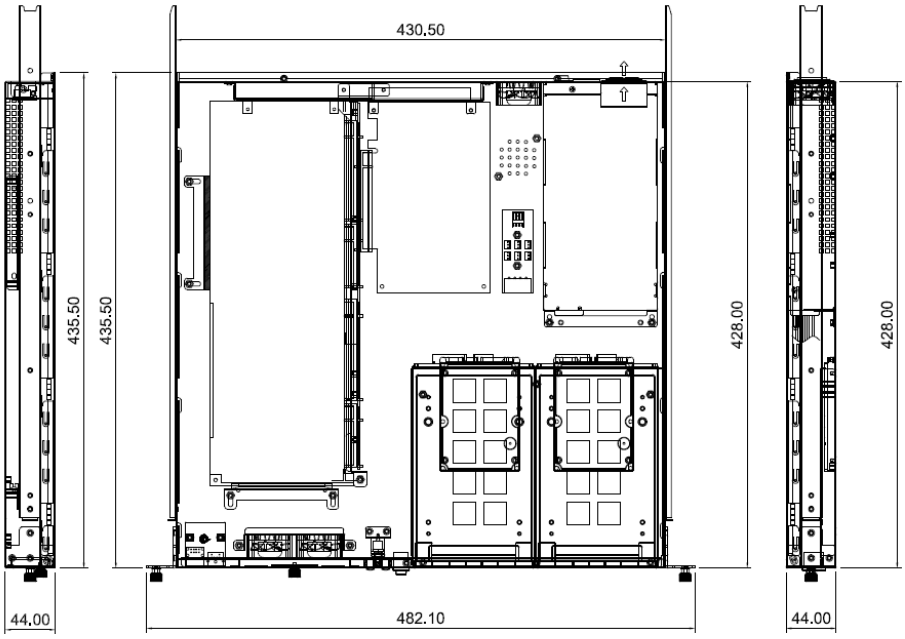
The **RCK-103B2** is an extended version of RCK103BR with a depth of only 435.5mm, it provides an ideal solution for those applications where depth can make or break a project. The chassis is designed to support a PICMG 1.3 Backplane and SBC, the **RCK-103BR2** proves to be a perfect choice for sub-racks and short rack cabinets. The **RCK-103BR2** can support (2) hot swap 3.5"/2.5" and (2) 2.5" SATA drives. Additional I/O expansion can be easily configured through the (1) PCIe or (3) PCI slots on the PICMG backplane. Total of three 4cm ball-bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-103BR2** provides a robust solution to Firewall Server, Proxy Server, and VPN Gateway while still remaining compact.

Features

- Heavy-duty Steel construction with only 435.5mm in depth
- Supports full-size SCB through PICMG1.3 butterfly backplane
- (2) 3.5"/2.5" SATA mobile racks, (2) int. space for 2.5" HDD/SSD
- (2) USB and (1) PS/2 ports
- RS-232 port on front and rear panel
- (3) 4cm ball-bearing fans with replaceable air filter
- Support up to 520W 1U PSU
- Full extension Slide rail included

RCK-103BR2

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black

Board Support

- Single Board Computer

Drive Bays

- (2) 3.5”/2.5” SATA Mobile racks
- (2) internal space for 2.5” HDD/SSD

Expansion

- PICMG 1.3 backplane with 1 PCIe x16 slot

Power Supply

- 300/460/520W ATX Power supply

Cooling System

- Three 4cm ball-bearing fans

I/O Port

- (2) USB 2.0 port
- (1) front and (2) rear RS-232 port

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Dimensions

- 430.5 (W) x 435.5 (D) x 44 (H) mm
- 17 (W) x 17.15 (D) x 1.74 (H) inches

Operating Temperature

- 0~55 °C

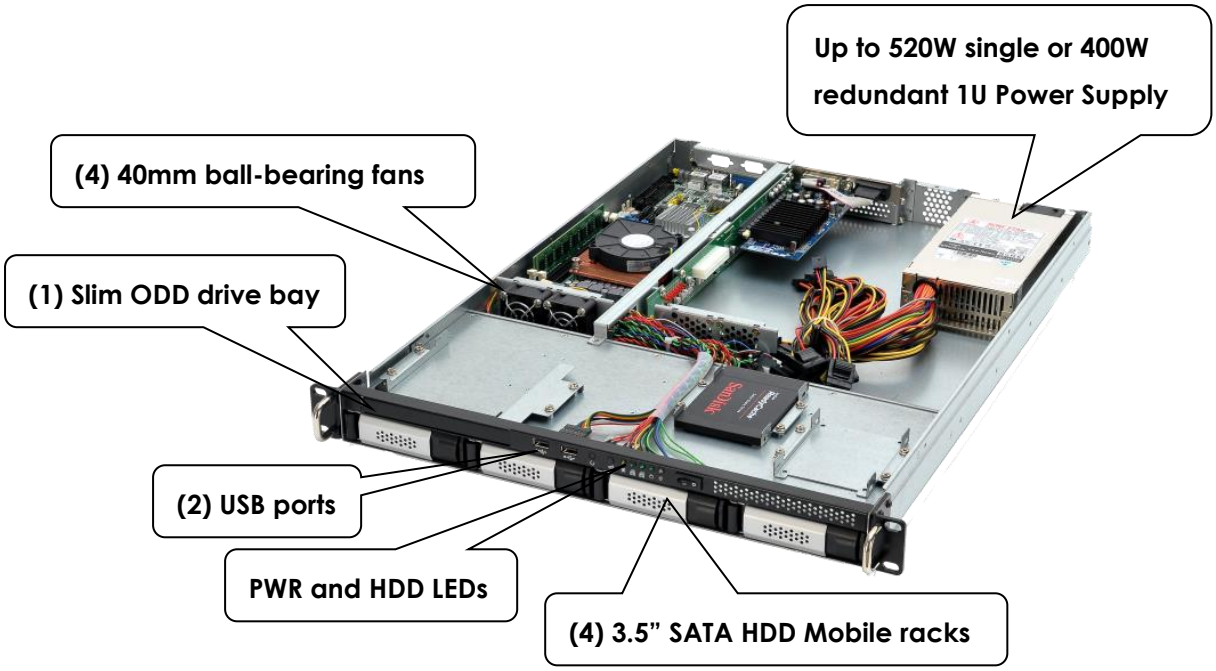
Gross Weight

- 8.8kg / 19.4lbs

Ordering Information

RCK-103BR2-201E-BLK	1U chassis for SBC board with BPE-201E backplane
RCK-103BR2-201E-300W-BLK	1U chassis for SBC board with BPE-201E backplane and 300W PSU
RCK-103BR2-201E-460W-BLK	1U chassis for SBC board with BPE-201E backplane and 460W PSU

RCK-107BR



Introduction

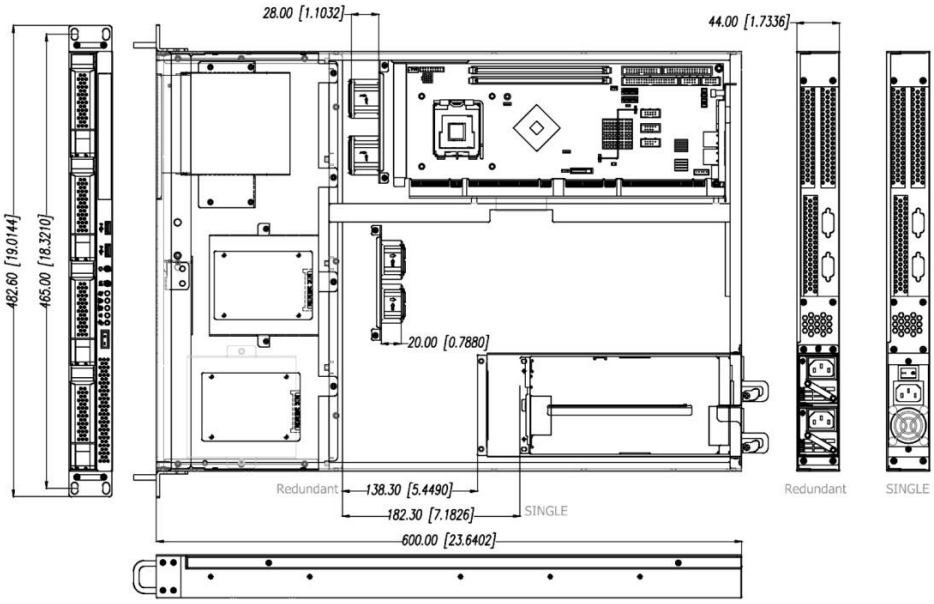
The **RCK-107BR** is a rugged 1U server chassis with a depth of 600mm (23.62"), and 4 HDD mobile racks, providing an ideal solution for critical applications such as Data Center, Storage, Cloud solution. Designed to support a PICMG 1.3 Backplane and SBC board, the RCK-107BR proves to be a perfect choice for Server cabinets. Additional I/O expansion can be easily configured through the PCI3 x16 slot found on the PICMG 1.3 backplane. Total of four 4cm ball-bearing fans ensure excellent airflow when faced with a heat sensitive application. The RCK-107BR provides a robust solution to Firewall Server, Proxy Server, VPN Gateway.

Features

- Heavy-duty steel construction with 600mm in depth
- Support Full-size SBC through PICMG 1.3 backplane with 1x PCIe x16 slot
- (4) 3.5" SATA HDD mobile racks,
- (1) Slim ODD drive bay
- (2) 2.5" space for SSD or HDD
- (2) USB ports on front panel
- LED indicators
- (4) 40mm ball-bearing fans
- Supports 1U power supply:
  - Up to 520W single PSU, or
  - 400W redundant PSU
- Optional ball-bearing slide rail

RCK-107BR

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black front panel with silver color chassis

Board Support

- Single Board Computer

Drive Bays

- (4) 3.5" SATA HDD mobile racks
- (1) Slim ODD drive bay
- (2) Space for 2.5" SDD or HDD drives

Expansion

- Backplane with one PCI slot or PCIe x16 slot

Power Supply

- Up to 520W single or 400W 1U redundant Power supply

Cooling System

- Three 4cm ball bearing fans

Audio

- One 8Ω system buzzer

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Dimensions

- 432(W) x 600(D) x 44(H) mm
- 17 (W) x 23.62(D) x 1.73 (H) inches

Operating Temperature

- 0~45 °C

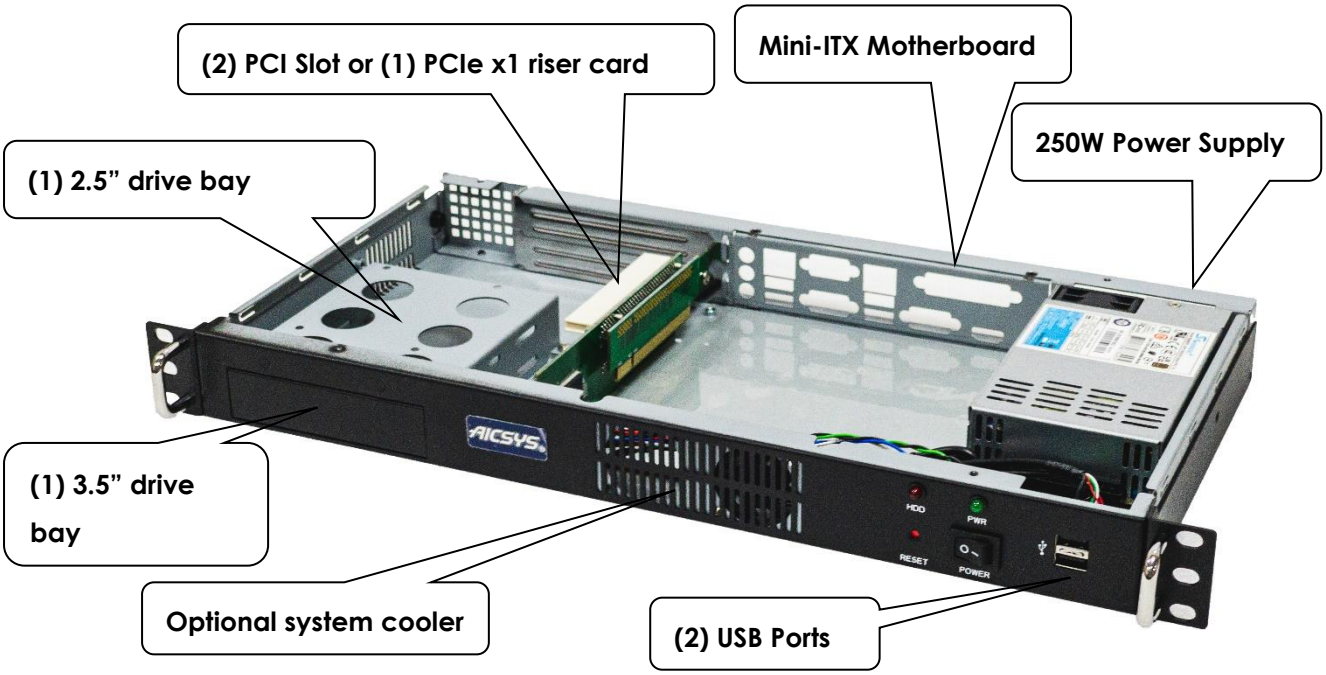
Gross Weight

- 7.2kg

Ordering Information

RCK-107BR-201E	1U Server chassis with (1) PICMG 1.3 & (1) PCIe x16 Slots backplane
RCK-107BR-201E -300W	1U Server chassis with PICMG 1.3 backplane and 300W PSU
RCK-107BR-201E -460W	1U Server chassis with PICMG 1.3 backplane and 460W PSU
RCK-107BR-201E -520W	1U Server chassis with PICMG 1.3 backplane and 520W PSU
RCK-107BR-201E -400WR	1U Server chassis with PICMG 1.3 backplane and 400W redundant PSU

NDS-102M2



Introduction

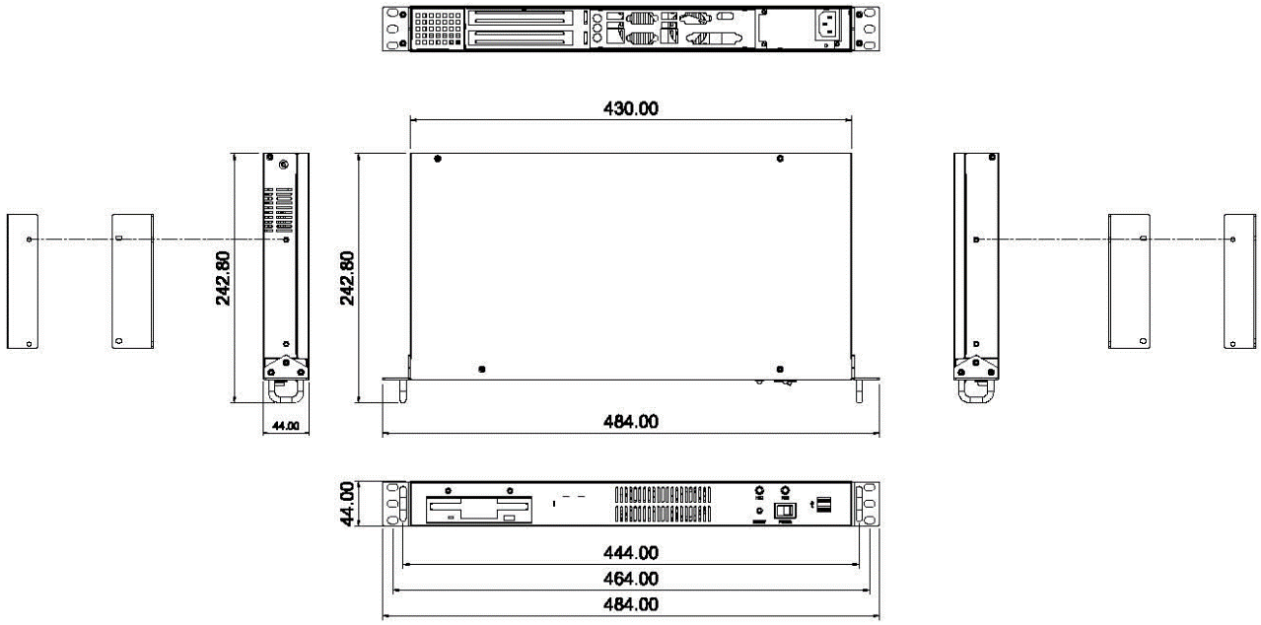
The **NDS-102M2** chassis is ultra compact 1U chassis made of heavy-duty steel with up to 250 watt 1U industrial power supply, designed for standard 19" rack cabinet, supports Mini-ITX motherboard. With its compact size, the chassis still remains up to 2 PCI or 1 PCIe expansions through riser card and supports up to 2 HDD drives. The front panel provides two USB 2.0 ports and one 40mm fans for high performance system. The **NDS-102M2** also provides rackmount kit and wallmount kit; users can change the mounting type for different applications. It is the ideal platform for an almost unlimited variety of applications like servers, digital signage system, Set Top Box, entertainment center or other industrial PC designs.

Features

- EIA RS-310C 19" Rackmount Standard 1U height
- Heavy-Duty Steel
- Supports Mini-ITX motherboard
- (1) 3.5" and (1) 2.5" Drive bays
- (2) 2.0 USB ports on front panel
- Optional (2) system fans
- Up to 250W PFC Power Supply
- Wallmount and Rackmount kit

NDS-102M

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Mini-ITX motherboard

Drive Bays

- (1) 3.5" and (1) 2.5" Drive bays
- Supports one 3.5" mobile rack with (2) 2.5" HDD

Expansion

- PCI-201D: Riser card with (2) PCI slot, or
- PCIE-101D-50: Riser card with (1) PCIe x1

Power Supply

- Up to 250W Flex ATX

Cooling System

- (1) 4cm fan
- (1) Extra space for additional 4cm fan

Ports

- (2) USB 2.0 connectors

Switches

- Power ON/OFF, Safety System Reset

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 430 (W) x 221 (D) x 44.2 (H) mm
- 16.9 (W) x 8.7 (D) x 1.74 (H) inches

Operating Temperature

- 0~55 °C

Net/Gross Weight

- 2.6Kgs/3.8Kgs

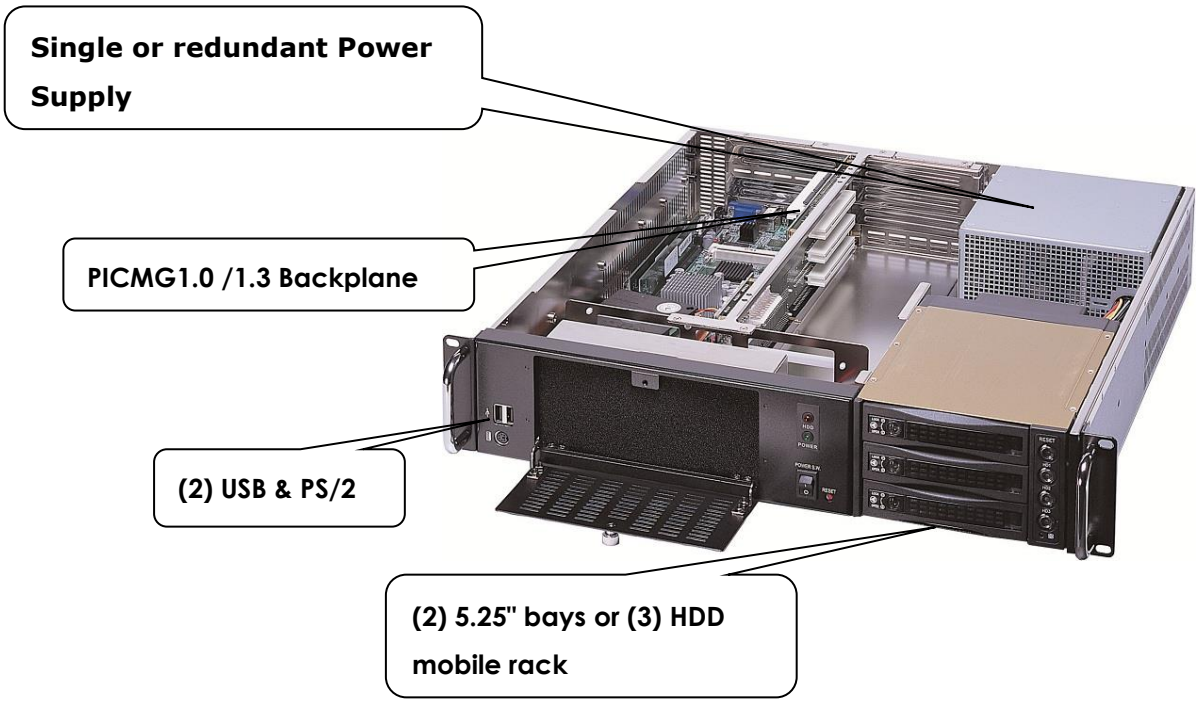
Ordering Information

NDS-102M2	1U chassis for Mini-ITX motherboard with 250W ATX power supply

2U Ruggedized Industrial Chassis



RCK-202B



Introduction

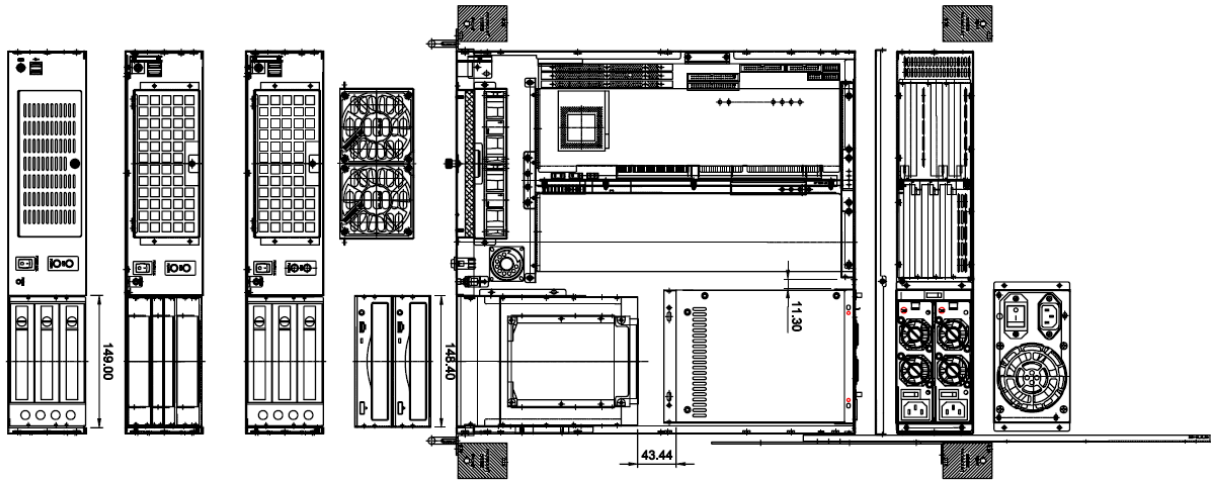
The **RCK-202B** boasts a depth of only 450mm (17"), thus it provides an ideal solution for those applications where depth can make or break a project. Designed to support a PICMG Backplane and Full-Size SBC, the RCK-202B proves to be a perfect choice for any DVR or storage application. The RCK-202B can support up to three drive bays, (2) 5.25" or (3) 3.5" internal drives. Additional I/O expansion can be easily configured through the optional 2 or 4-PCI slots found on the PICMG backplane. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-202B** provides a robust solution to any server application, while still remaining compact.

Features

- EIA RS-310C 19" Rackmount Standard Heavy Duty Steel with Ni Plating
- Supports Full Size SBC
- Supports Full Length PCI Expansion
- Supports PICMG1.0/1.3 Backplane with optional 2 or 4 PCI slots for expansion
- Supports (2) 5.25" bays or (3) HDD mobile rack
- Slide Rail applicable
- Lockable front door and replaceable air filter
- 2 x 8cm Replaceable High-speed ball bearing fans for better ventilation
- PS/2 or Hot Swap Redundant Power Supply

RCK-202B

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black

Board Support

- Full Size Single Board Computer

Drive Bays

- (2) 5.25" bays or (3) HDD mobile rack

Expansion

- PICMG1.0/1.3 Backplane with optional 2 or 4 PCI slots for expansion

Power Supply

- 400W/600W PS/2 ATX power supply (80PLUS) or 400W Hot Swap Redundant Power Supply

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Front Panel Connectors

- (2)USB 2.0 ports, and PS/2 connector

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

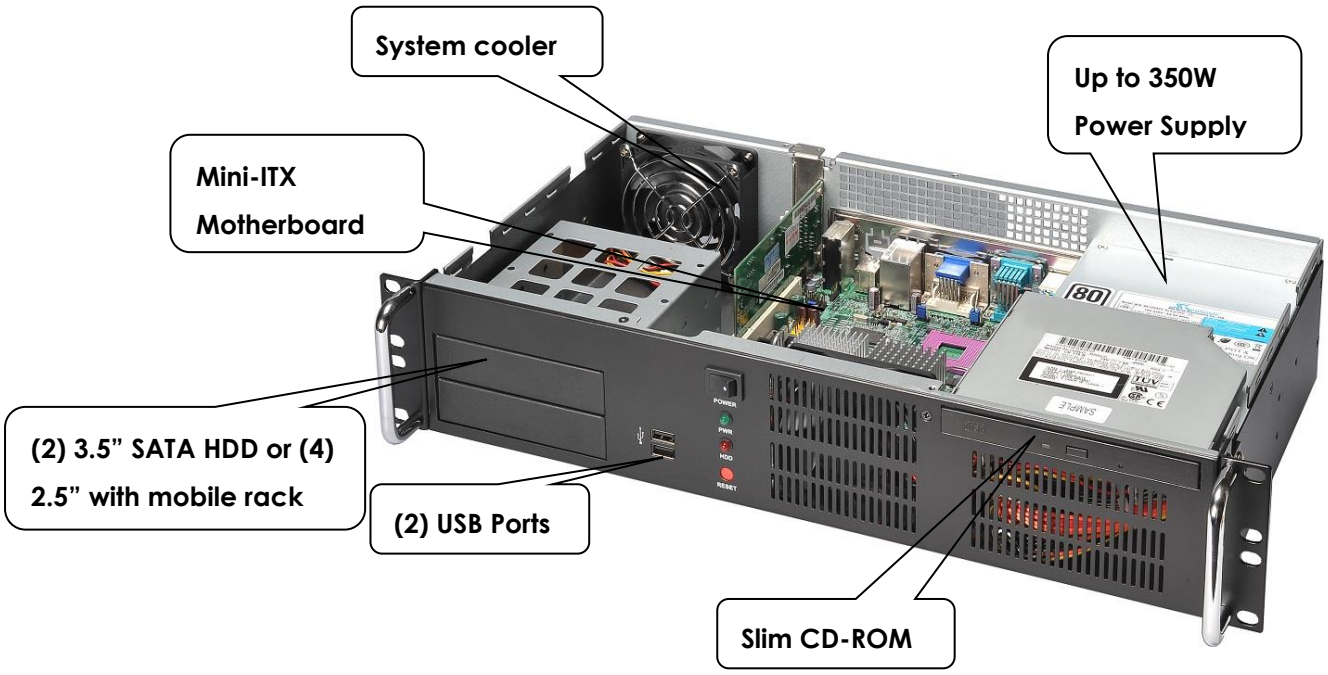
Net/Gross Weight

- 7.6Kg/11.3kg

Ordering Information

RCK-202B-0604P-400W	RCK-202B with (4PCI, 2PICMG1.0) butterfly backplane and 400W 80PLUS ATX PS/2 power supply
RCK-202B-0502P-400W	RCK-202B with (2PCI, PICMG1.3) butterfly backplane and 400W 80PLUS ATX PS/2 power supply
MR-K22C3	Mobile Rack with (3) Drive Bays for 3.5" SATA HDD
MT-SR120	Slide Rail

NDS-203M



Introduction

The **NDS-203M** chassis is ultra compact 2U rackmount chassis made of heavy-duty steel with up to 350W power supply, designed for standard 19" rack cabinet, supports Mini-ITX motherboards (17cm x 17cm). With its compact size, the chassis supports (1) slim optical drive and (2) 3.5" SATA HDD. The front panel provides two USB 2.0 ports and optional two system fans for high performance system.

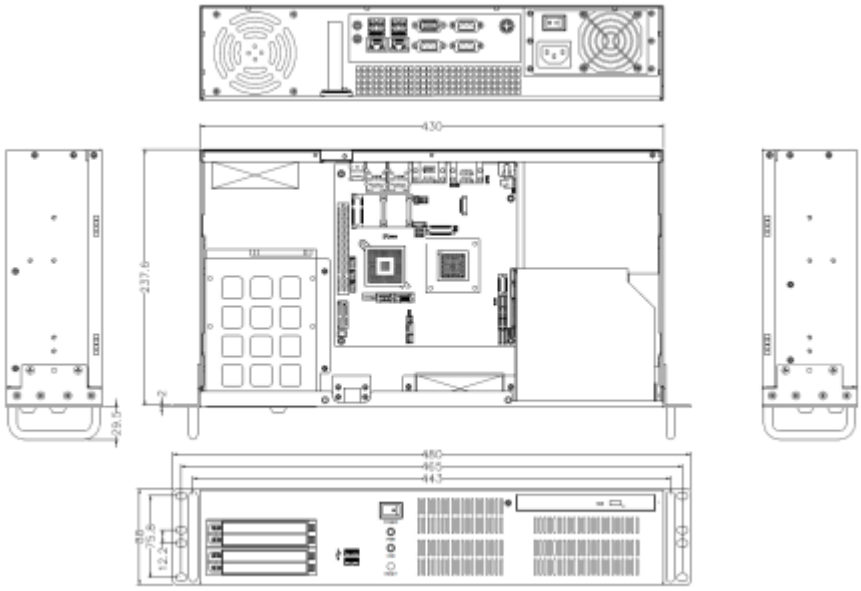
The **NDS-203M** is the ideal platform for an almost unlimited variety of applications like servers, digital signage system, Set Top Box, entertainment center or other industrial PC designs.

Features

- EIA RS-310C 19" Rackmount Standard 2U height
- Heavy-Duty Steel
- Supports Mini-ITX motherboard
- Supports up to (4) HDD with mobile rack
- (2) 2.0 USB ports on front panel
- Optional (2) system fans

NDS-203M

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Mini-ITX motherboard

Drive Bays

- (2) 3.5" SATA HDD
- Optional (4) 2.5" SATA HDD with mobile rack
- (1) slim optical drive bay

Power Supply

- Up to 350W micro-ATX power supply

Cooling System

- Optional (2) System Fans

Ports

- (2) USB 2.0 connectors

Switches

- Power ON/OFF, Safety System Reset

Indicators

- One power on/off LED and one HDD LED

Expansion Slot

- One low profile expansion slot

Dimensions

- 430 (W) x 239.6 (D) x 88 (H) mm
- 16.9 (W) x 9.4 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

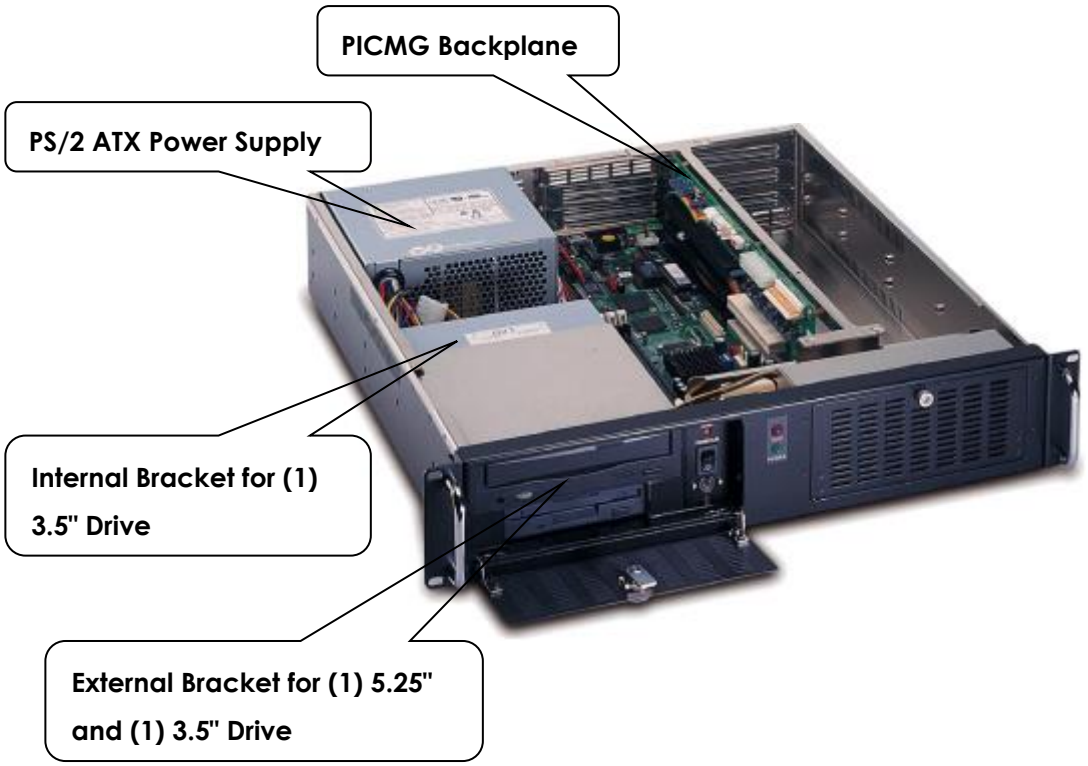
Gross Weight

- 7kg

Ordering Information

NDS-203M-300W	2U chassis for Mini-ITX motherboard with 300W ATX power supply

RCK-203B



Introduction

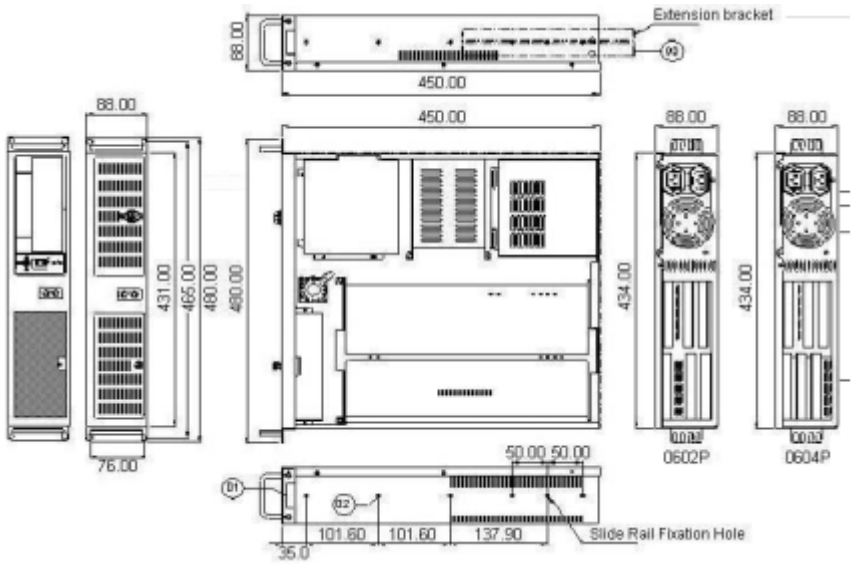
The **RCK-203B** boasts a depth of only 450mm (17"), thus providing an ideal solution for those applications where depth can make or break a project. Designed to support a PICMG Backplane and Full or Half-Size SBC, the RCK-203B proves to be a perfect choice for any ISP or Telecom application. The RCK-203B can support up to three drive bays, (1) 5.25" CD-ROM/DVD-ROM, (1) 3.5" FDD, and (1) "hidden" internal 3.5" bays. Additional I/O expansion can be easily configured through the optional 2 or 4-PCI slots found on the PICMG backplane. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-203B** provides a robust solution to any server application, while still remaining compact.

Features

- EIA RS-310C 19" Rackmount Standard
- Heavy Duty Steel with Ni Plating
- Supports Full Size SBC
- Supports Full Length PCI Expansion
- Supports PICMG1.0/1.3 Backplane with optional 2 or 4 PCI slots for Expansion
- Slide Rail Applicable
- Lockable Front Door and Replaceable Air Filter
- 2 x 8cm Replaceable High-speed Ball Bearing Fans for Better Ventilation
- 350W/400W ATX Auto-switch Power Supply

RCK-203B

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige(RAL7035)

Board Support

- Full Size PIII/PIV Single Board Computer

Drive Bays

- (1) 5.25" + (1) 3.5" external drives and (1) 3.5" internal drives

Expansion

- PICMG1.0/1.3 Backplane with optional 2 or 4 PCI slots for Expansion

Power Supply

- 350W/400W PS/2 ATX power supply (80PLUS optional)

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

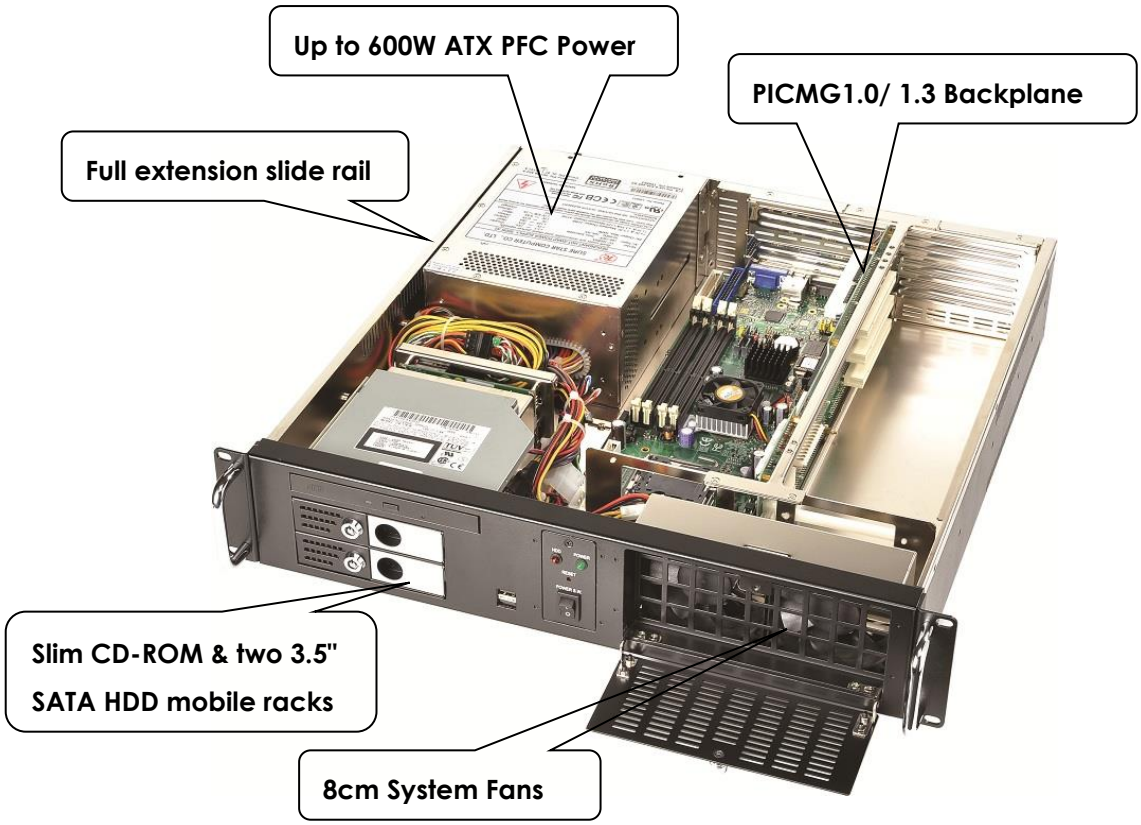
Net/Gross Weight

- 7.5Kg/10.2kg

Ordering Information

RCK-203B -0602P-350W	2U chassis RCK-203B with (2 PCI, 2 ISA, 2 PICMG) butterfly backplane and 350W 80PLUS ATX PS/2 power supply
RCK-203B -0604P-400W	2 U chassis RCK-203B with (4 PCI, 2PICMG) butterfly backplane and 400W ATX PS/2 power supply
SR-120	Slide Rail

RCK-203BR



Introduction

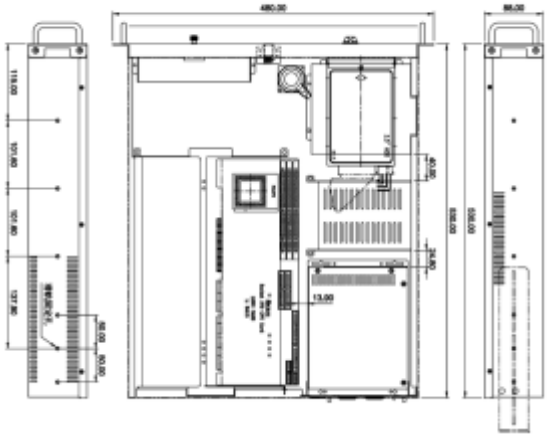
The **RCK-203BR** is a 2U Rackmount chassis with a depth of only 450mm (17 inch). The chassis is designed to support a PICMG 1.0 or 1.3 SBC through a butterfly backplane, and thus is a perfect choice for sub-racks and short rack cabinets. The RCK-203BR can support (1) slim CD-ROM, and (2) 3.5" SATA HDD. Additional I/O expansion can be easily configured through the (4) PCI slots found on the optional PICMG backplane. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. To ensure the 7/24 stable runtime system, the chassis also supports mini redundant power supply. The **RCK-203BR** provides a robust solution to Firewall Server, Proxy Server, VPN

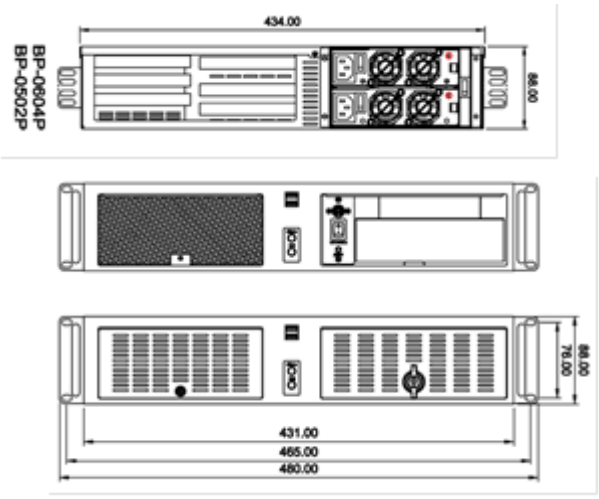
Features

- Heavy duty steel construction with only 450mm in depth
- Supports Full Size SBC through PICMG1.0/ 1.3 butterfly backplane
- Drive Bays: (1) Slim CD-ROM, (2) 3.5" SATA HDD mobile racks
- USB ports on the front panel
- Two 8cm ball bearing fans to ensure excellent heat dissipation
- Optional up to 600W ATX power supply or mini-redundant power supply included
- Full extension slide rail

RCK-203BR

Mechanical Drawing





Construction

- Heavy duty steel

Color

- Black, optional other color by order

Board Support

- Single Board Computer

Drive Bays

- (1) Slim CD-ROM, (2) 3.5"SATA HDD mobile racks

Expansion

- PICMG 1.0 backplane with (4) PCI slots
- PICMG 1.3 backplane with (1) PCIe x16, (1) PCIe x4 and (2) PCI slots

Power Supply

- Up to 600W PS/2 ATX Power Supply (Optional 80PLUS)
- Mini-Redundant Power Supply

Cooling System

- Two 8cm ball bearing fans

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

- 0~45 °C

Net/Gross Weight

- 7.4Kg/10Kg

Ordering Information

RCK-203BR	2U chassis with (3) drive bay
RCK-203BR -0604P-400W	2U chassis with (1) PICMG & (4) PCI slots backplane and 400W ATX PFC power supply
RCK-203BR -0604P-600W	2U chassis with (1) PICMG & (4) PCI slots backplane and 600W ATX PFC power supply
RCK-203BR -0502P-400W	2U chassis with (1) PICMG1.3 & (1) PCIe x16, (1) PCIe x4 and (2) PCI, 400W ATX PFC power Supply
RCK-203BR	2U chassis with (1) PICMG1.3

RCK-203BE





Introduction

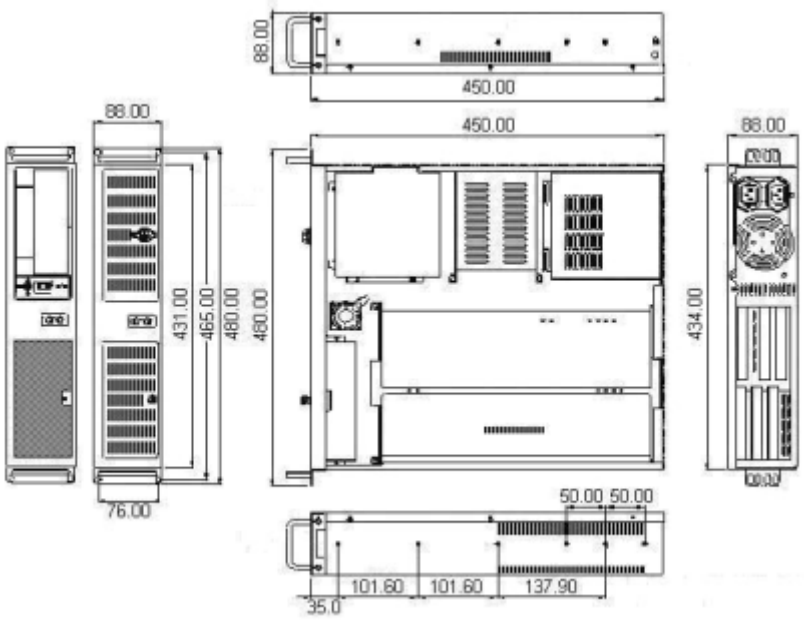
The **RCK-203BE** is the first and only 2U chassis that supports System Host Board (SHB) through 2U PICMG 1.3 butterfly backplane **BPE-0502P**. The backplane also supports (1) PCIe x16 slot, (1) PCIe x4 slot, and (2) PCI 32 bit 5V slots to configure additional expansions. The chassis boasts a depth of only 450mm (17"), thus providing an ideal solution for those applications where depth can make or break a project. The **RCK-203BE** supports up to three drive bays: (1) 5.25" CD/DVD-ROM, (1) 3.5" FDD, and (1) "hidden" internal 3.5" HDD. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-203BE** provides a robust solution to any server application using System Host Board (SHB) while still remaining compact.

Features

- EIA RS-310C 19" Rackmount Standard
- Heavy Duty Steel with Ni Plating
- 5.25"CD-ROM/DVD-ROM bay, (1) 3.5" FDD bay, and (1) Internal 3.5" HDD bay
- BPE-0502P 2U PICMG 1.3 backplane supports Full Size System Host Board, expandable through (1) PCIe x16 slot, (1) PCIe x4 slot, and (2) PCI 32 bit 5V slots
- Slide Rail Applicable
- Lockable Front Door and Replaceable Air Filter
- 8cm High-speed Ball Bearing Fans for Better Ventilation
- 400W PS2 Auto-switch ATX Power Supply with PFC

RCK-203BE

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige(RAL7035)

Board Support

- Full Size Single Host Board (SHB)

Drive Bays

- 5.25", (1) 3.5" external drives, and (1) 3.5" internal drives

Expansion

- 2U PICMG 1.3 butterfly backplane with (1) PICMG ver. 1.3 RC1.0 SHB slot, (1) PCIe x16 slot, (1) PCIe x4 slot, and (2) PCI slots

Power Supply

- 400W PS/2 ATX power supply with PFC

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Ports

- (1) front panel PS/2 port for keyboard/mouse

Switches

- On/Off Switch and Reset Switch

Indicators

- power on/off LED and (1) HDD LED

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17.1 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

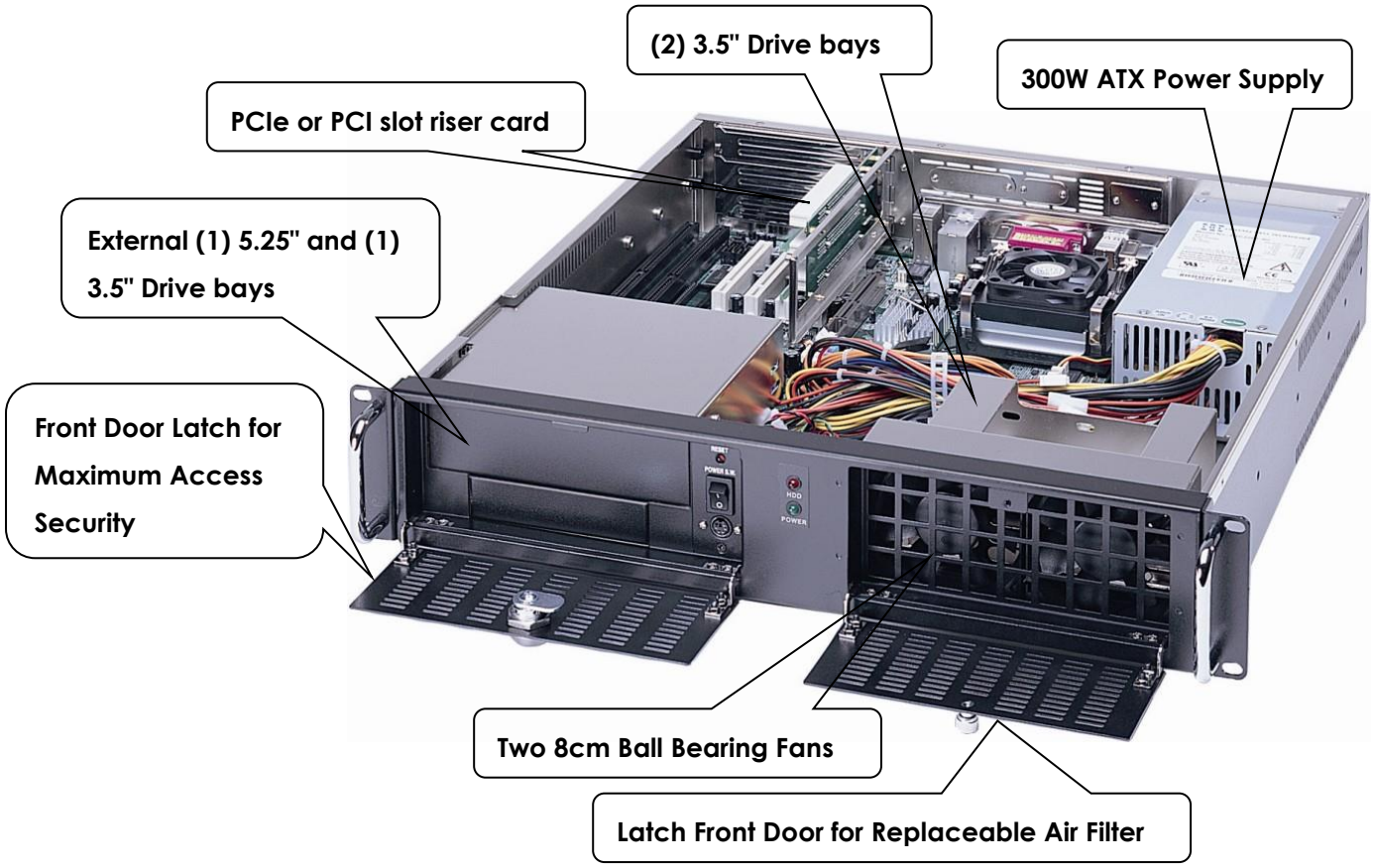
Gross Weight

- 10.2kg

Ordering Information

RCK-203BE	RCK-203BE with BPE-0502P
-0502P	backplane
RCK-203BE	RCK-203BE with BPE-0502P
-0502P-400W	backplane and 400W Auto-Switch ATX PS/2 power supply with PFC
SR-120	Slide Rail

RCK-204M



Introduction

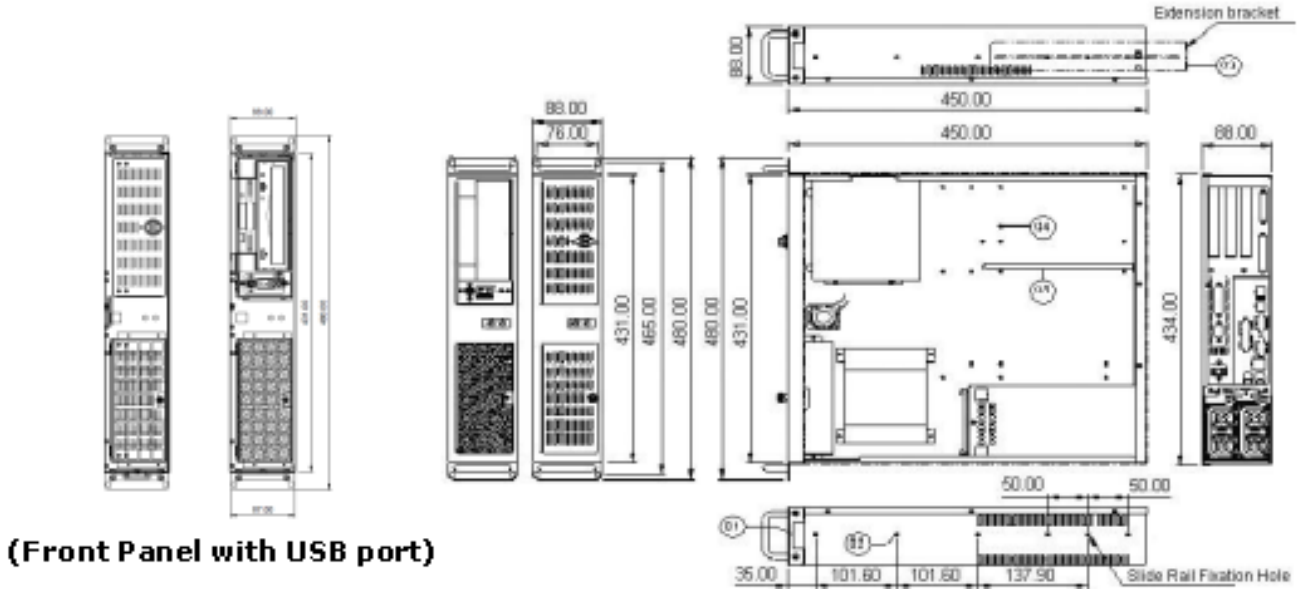
The **RCK-204M** is a 2U Rackmount chassis that boasts a depth of only 450mm (17"), thus providing an ideal solution for those applications where the chassis depth can make or break a project. Equipped to handle ATX motherboards or Dual CPU server boards, the **RCK-204M** proves to be a perfect choice for all ISP or Telecom applications. Exceeding the drive capacity of most 2U chassis, the **RCK-204M** can support up to four drive bays, one 5.25" CD/DVD, (1) 3.5" FDD, and (2) "hidden" internal 3.5" bays. A PCI riser card can be used with up to (3) PCI slots for additional peripherals. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-204M** provides a robust solution to any server application, while still remaining compact.

Features

- EIA RS-310C 19" Rackmount Standard
- Heavy Duty Steel with Ni Plating
- Supports ATX Motherboard or Dual CPU Server Board
- Slide Rail Applicable
- Lockable Front Door and Replaceable Air Filter
- Front Access to PS/2 Keyboard Connector
- (2) 8cm Replaceable High-speed Ball Bearing Fans for Better Ventilation
- **300W** ATX Auto-switch Power Supply

RCK-204M

Mechanical Drawing



(Front Panel with USB port)

Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige(RAL7035)

Board Support

- ATX Motherboard (12"x9")

Drive Bays

- (1) 5.25" + (1) 3.5" external drives and (2) 3.5" internal drives

Expansion

- (3) 32-bit PCI slot through riser card
  Or (2) 32-bit PCI slot + (1) PCIe x16 slot

Power Supply

- 2U 300W ATX PFC power supply

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Ports

- One front panel PS/2 connector for keyboard/mouse
- Optional USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- power on/off LED and (1) HDD LED

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17.1 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

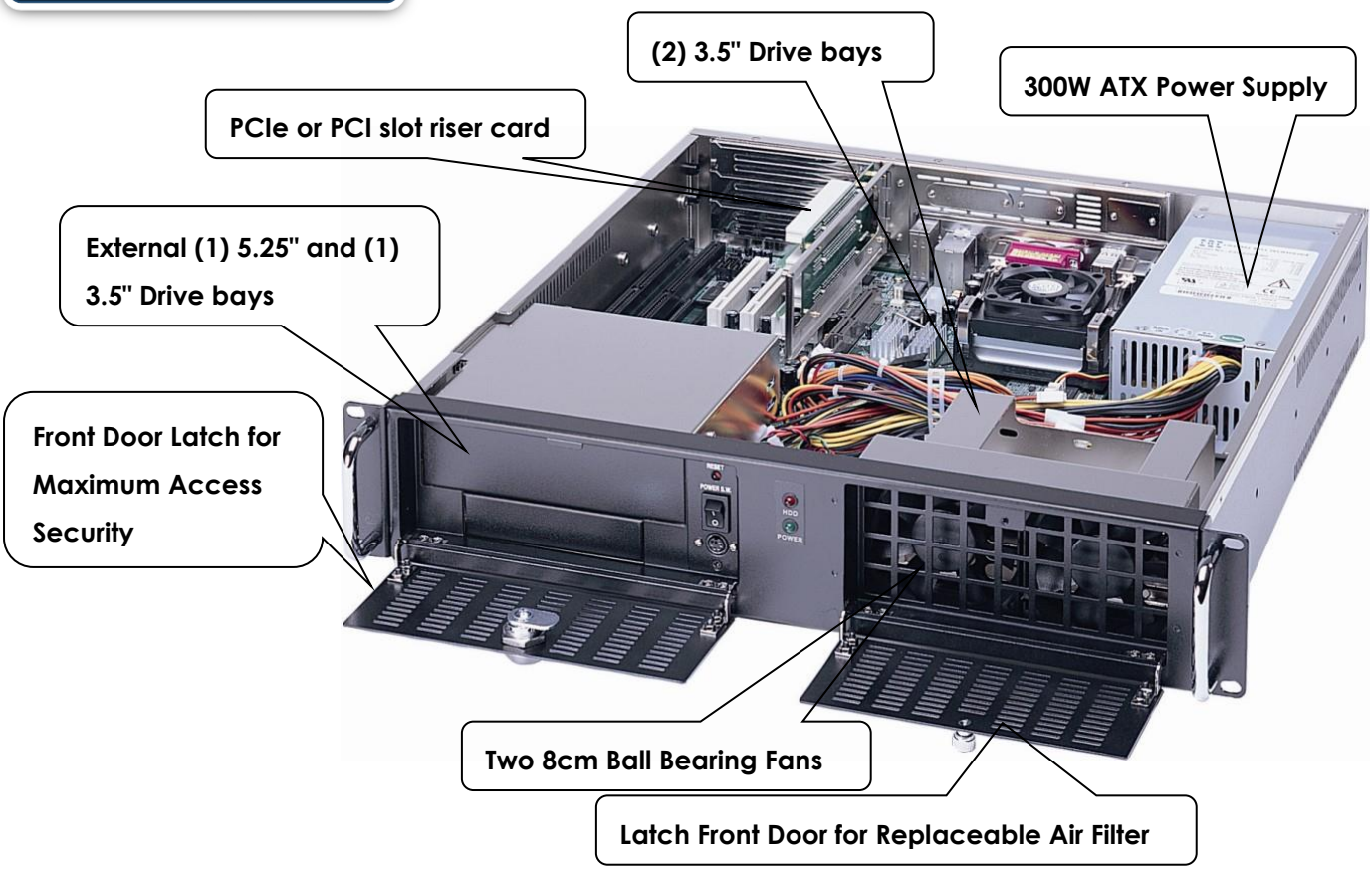
Gross Weight

- 9.4kg

Ordering Information

RCK-204M -PCI303-300W	2U chassis with (3) PCI riser card (for MBC-4601 only) and 300W ATX PFC power supply
RCK-204M -PCIE303-300W	RCK-204M with 2U 300W ATX PFC power supply & PCIE-303 riser card (for MBC-4601 only)
MT-SR120	Optional Slide Rails

RCK-204M2



Introduction

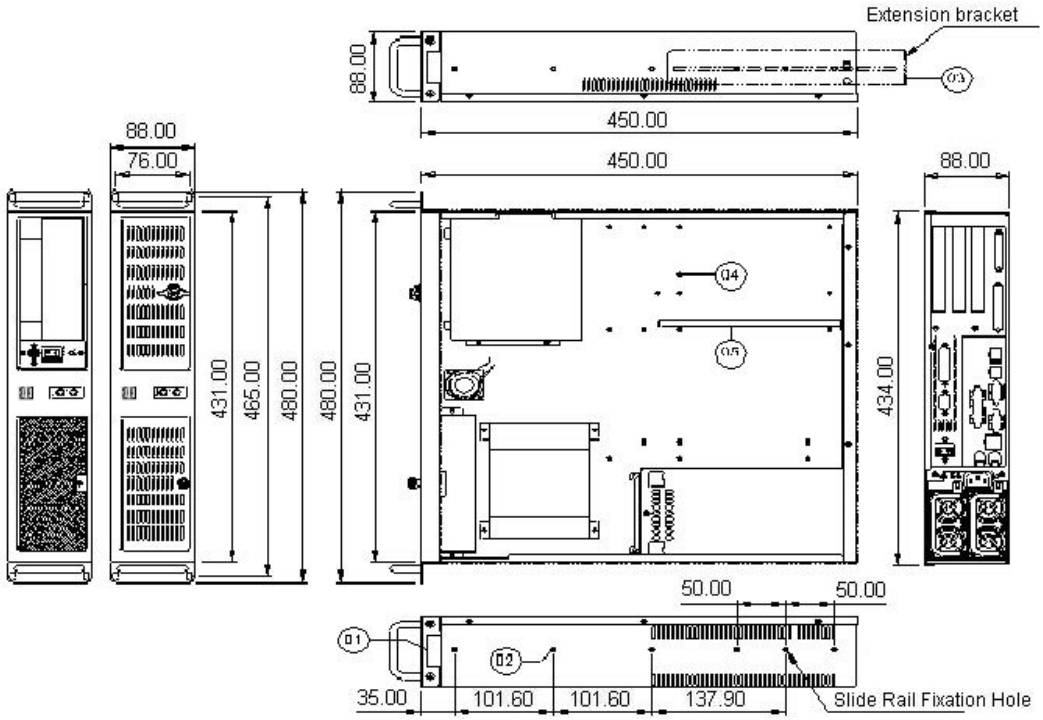
The **RCK-204M2** is a 2U Rackmount chassis that boasts a depth of only 450mm (17"), thus providing an ideal solution for those applications where the chassis depth can make or break a project. Equipped to handle ATX motherboards or Dual CPU server boards, the **RCK-204M2** proves to be a perfect choice for all ISP or Telecom applications. Exceeding the drive capacity of most 2U chassis, the **RCK-204M2** can support up to four Drive bays – (1) 5.25" & (1) 3.5" ext. Drive bays, and (2) int. 3.5" Drive bays. A PCI riser card can be used with up to (3) PCI slots for additional peripherals. Two 8cm ball-bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-204M2** provides a robust solution to any server application, while still remaining compact.

Features

- EIA RS-310C 19" Rackmount Standard
- Heavy-duty Steel with Ni plating
- Supports ATX Motherboard
- Lockable Front Door for Maximum Access Security and Replaceable Air Filter
- (1) PS/2 connector on front panel
- (2) USB ports on front panel
- (2) 8cm Ball-bearing Fans
- Up to 2U 400W Single or 2U 380W Redundant Power supply
- Optional 18-inch Slide rail

RCK-204M2

Mechanical Drawing



Construction

- Heavy-duty Steel with Ni plating

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (1) 5.25" & (1) 3.5" external Drive bays, and (2) 3.5" internal Drive bays

Expansion

- (3) 32-bit PCI slot through riser card, or
  (2) 32-bit PCI slot + (1) PCIe x16 slot

Power Supply

- 2U ~ 500W Single/ ~380W Redundant PSU

Cooling System

- (2) 8cm Fans and Replaceable air filter

Ports

- (1) PS/2 connector on front panel
- (2) USB port on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and (1) HDD LED

Dimensions (W x D x H)

- 434 x 450 x 88 mm
- 17.1 x 17.7 x 3.47 inches

Operating Temperature

- 0~55 °C

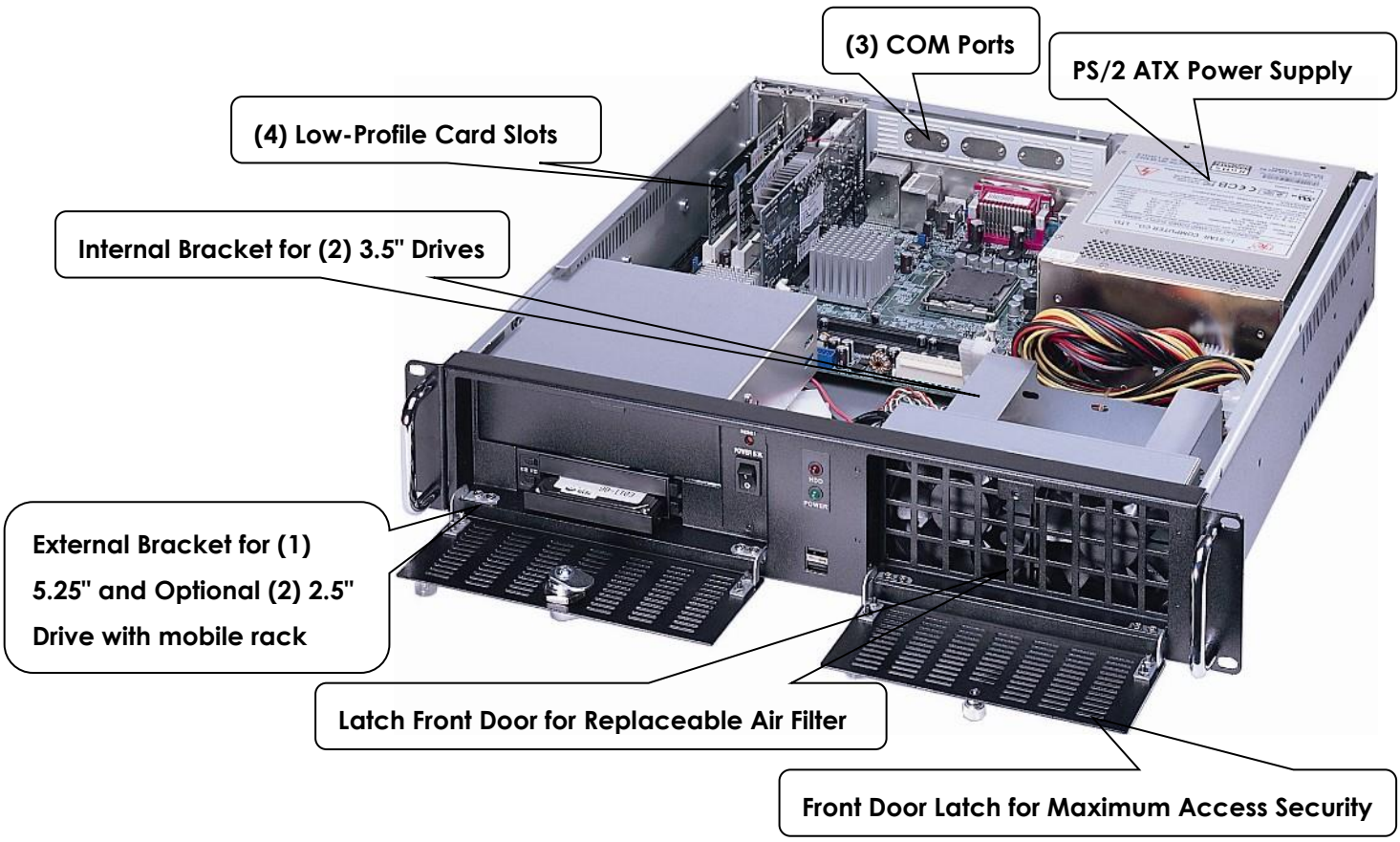
Gross Weight

- 9.4kgs

Ordering Information

RCK-204M2-PCI303-400W	2U chassis with 3 PCI riser card 32bit and 400W PSU
RCK-204M2-PCI303-380WR	2U chassis with 3 PCI riser card 32bit and 380W Redundant PSU
RCK-204M2-PCIE303-400W	2U chassis with PCIE-303 riser card 32bit and 400W PSU
RCK-204M2-PCIE303-380WR	2U chassis w/ PCIE-303 riser card 32bit and 380W Redundant PSU
MT-SR120	Optional 18" Slide rail

RCK-204MR



Introduction

The **RCK-204MR** is a 2U Rackmount chassis which is designed with a depth of 450mm (17") only, thus providing an ideal solution for those applications where the chassis depth can make or break a project. The **RCK-204MR** can fit a PS2 size power supply which is much cheaper compared to the ordinary 2U power supply. As such user can have more flexibility in choosing the power supply for this chassis. The chassis can be integrated with micro ATX motherboards or mini-ITX boards

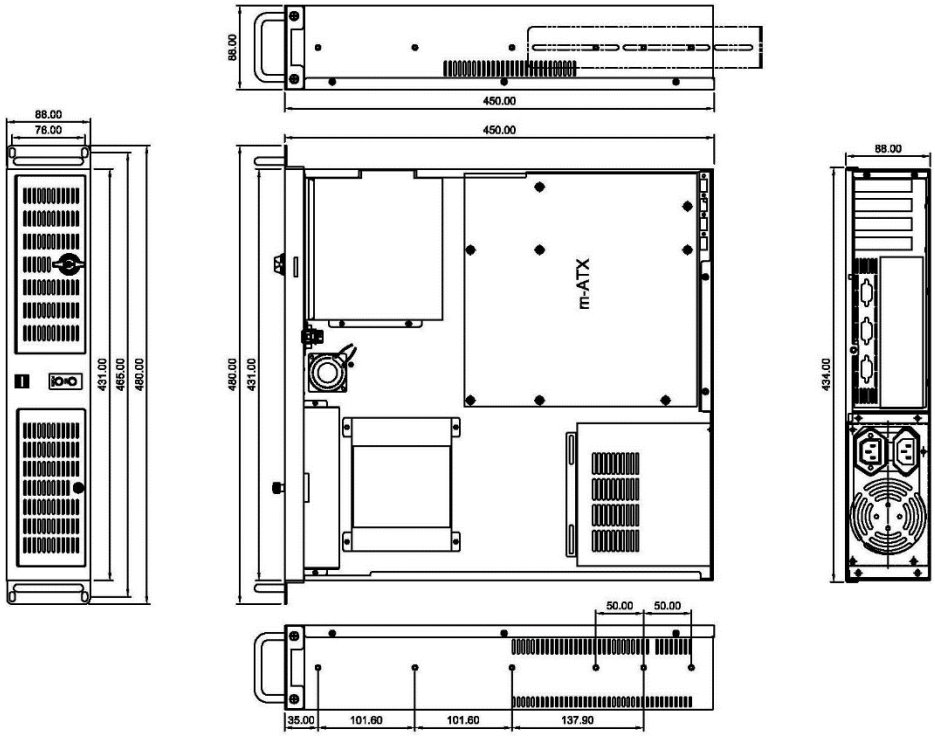
Exceeding the drive capacity of most 2U chassis, the **RCK-204MR** can support up to (5) drive bay, (4) low-profile PCI slots for additional peripherals. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application.

Features

- EIA RS-310C 19" Rackmount Standard
- Heavy Duty Steel with Ni Plating
- Supports mATX/uATX/Mini-ITX motherboard
- Supports External (2) 2.5" HDD with mobile rack
- Lockable Front Door and Replaceable Air Filter
- Front Access to PS/2 Keyboard Connector
- (2) 8cm Replaceable High-speed Ball Bearing Fans for Better Ventilation
- PS/2 Auto-switch Power Supply

RCK-204MR

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige

Board Support

- mTAX/uATX/Mini-ITX motherboard

Drive Bays

- External (1) 5.25" + (2) 2.5" with mobile rack
- (2) 3.5" internal drives

Expansion

- (4) Low-Profile Card Slots

Power Supply

- 350W/400W PS/2 Type power Supply (80PLUS & PFC optional), or PS/2 Type Hot Swap Redundant Power Supply

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Ports

- (2) USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- power on/off LED and (1) HDD LED

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17.1 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

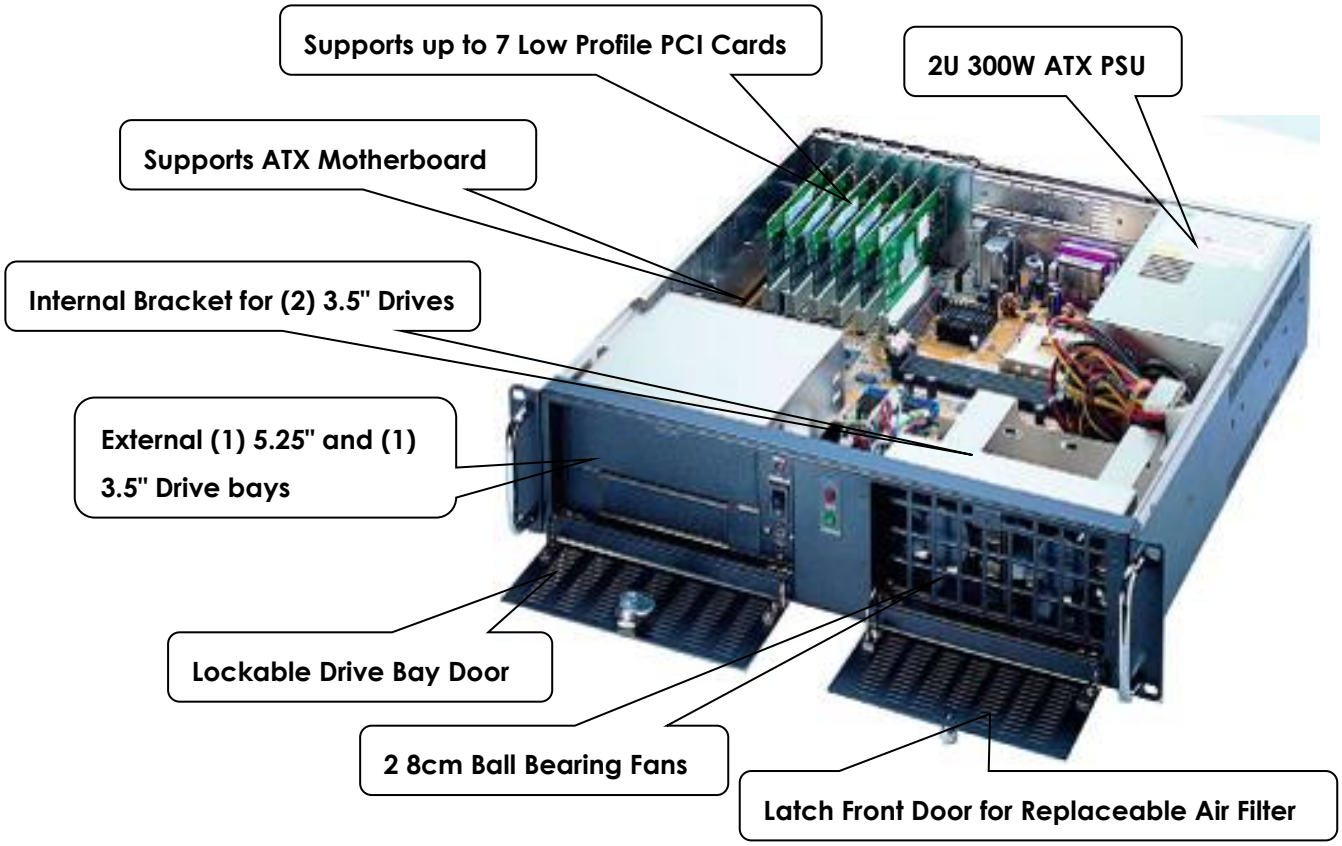
Gross Weight

- 9.4kg

Ordering Information

RCK-204MR -350W	2U chassis supports up to (4) low profile add-on cards and 350W ATX power supply (80 PLUS)
RCK-204MR -400W	2U chassis supports up to (4) low profile add-on cards and 400W ATX power supply
RCK-204MR -400WR	2U chassis supports up to (4) low profile add-on cards and 400W Hot Swap Redundant Power Supply

RCK-204ML



Introduction

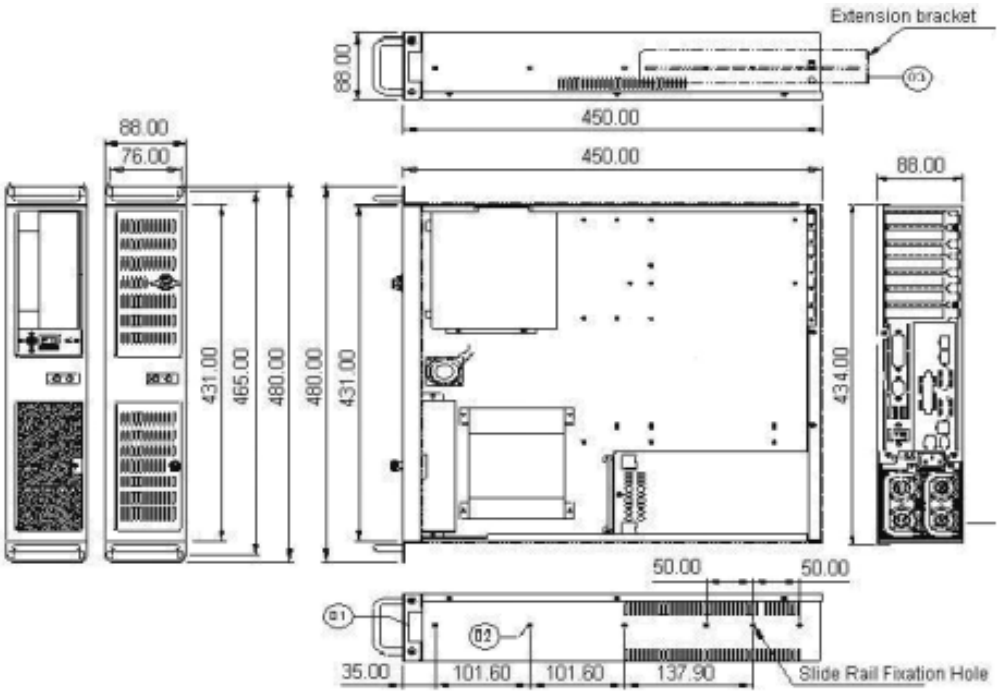
The **RCK-204ML** is designed for those who want to utilize the maximum number of slots on their motherboard whilst in the same time keeping the minimum height and size of the chassis. Just like **RCK-204M**, **RCK-204ML** also measuring a depth of only 450mm (17"). Equipped to handle ATX motherboards or Dual CPU server boards and up to 7 pieces of low-profile add-on cards that compliant to the standard set by PCI SIG group, the **RCK-204ML** proves to be a perfect choice for all ISP or Telecom applications. Exceeding the drive capacity of most 2U chassis, the **RCK-204ML** can support up to four drive bays, one 5.25"CD/DVD, (1) 3.5" FDD, and (2) "hidden" internal 3.5" bays. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-204ML** provides a robust solution to any server application, while still remaining compact.

Features

- Heavy Duty Steel with Ni Plating. EIA RS-310C 19" Rackmount Standard only 450mm deep
- Supports ATX Motherboard or Dual CPU Server Board
- Supports up to 7 low-profile add-on cards compliant to PCI SIG standard
- Slide Rail Applicable
- Lockable Front Door and Replaceable Air Filter
- Front Access to PS/2 Keyboard Connector
- 2 x 8cm Replaceable High-speed Ball Bearing Fans for Better Ventilation
- 2U 300W ATX Auto-switch Power Supply

RCK-204ML

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige(RAL7035)

Board Support

- ATX Motherboard

Drive Bays

- 5.25" and (1) 3.5" external drives and (2) 3.5" internal drives

Expansion

- Supports up to (7) Low Profile PCI SIG Cards

Power Supply

- 2U 300W ATX power supply

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Ports

- Front panel PS/2 port for keyboard/mouse

Switches

- On/Off Switch and Reset Switch

Indicators

- Power on/off LED and (1) HDD LED

Dimensions

- 434 (W) x 450(D) x 88(H) mm
- 17.1 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 ºC

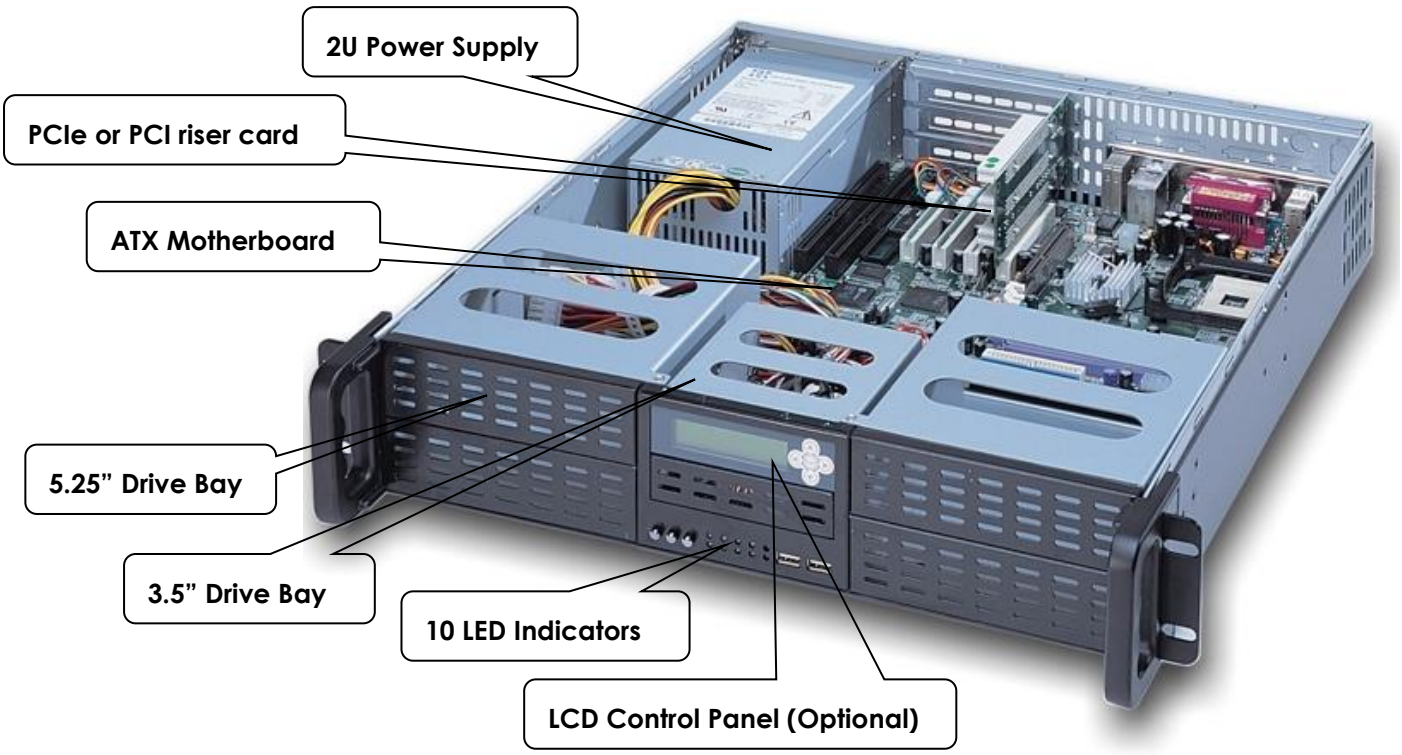
Gross Weight

- 9.4kg

Ordering Information

RCK-204ML-300W	2U chassis supports up to 7 low profile add-on cards and 300W ATX 2U power supply (PFC optional).

RCK-206M



Introduction

The **RCK-206M** is a new designed 2U chassis for motherboard with high density driver bays. It is constructed of heavy duty steel and supports standard ATX motherboards. Since it is configured for DVR application, it can accommodate two 3.5" Floppy drives and four 5.25" external driver bays.

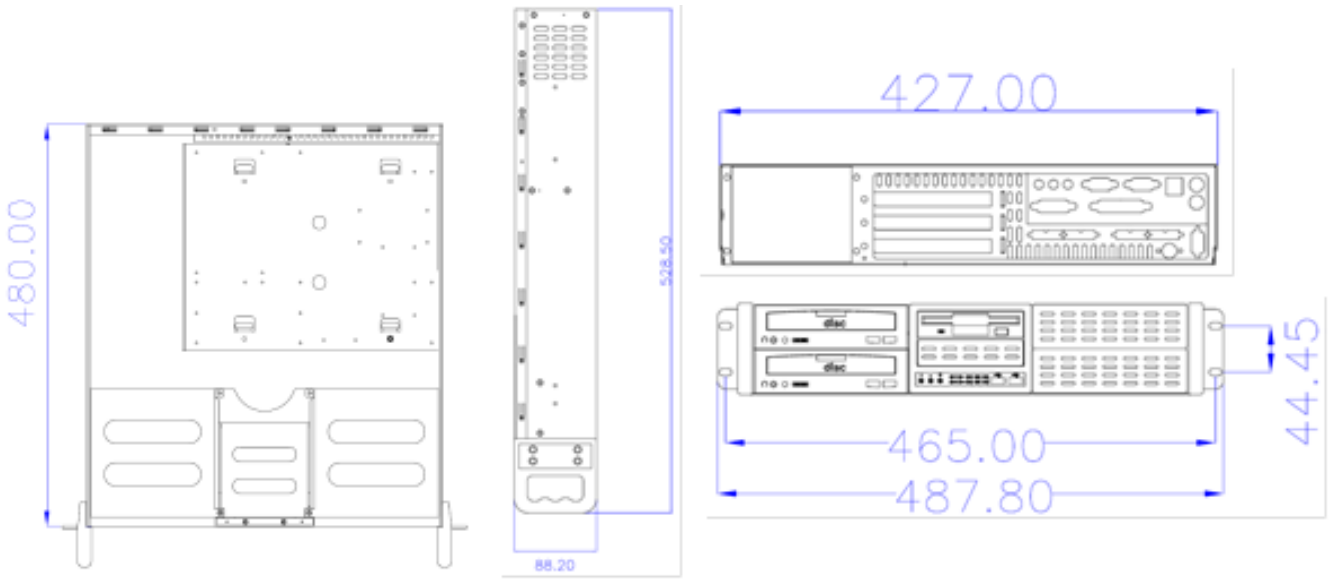
Besides, **RCK-206M** has a built in "system monitoring boards" to monitor the status of the system. The users can easily trace the status of the system by viewing the LED at the front panel of the chassis.

Features

- Standard 2U 19" Rackmount chassis
- Heavy duty steel
- 300 Watt 2U power supply with option for 400W Redundant power supply
- Riser card with 3 PCI expansion slots, or one PCIe x16 slot & 2 PCI expansion slots 10 LEDs indicators to monitor the system

RCK-206M

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black

Board Support

- ATX/ micro-ATX Motherboard

Drive Bays

- (2) 3.5" and (4) 5.25 external drive bays

Expansion

- (3) 32-bit PCI slot through riser card
- Or (2) 32-bit PCI slot + (1) PCIe x16 slot

Power Supply

- 300W ATX power supply or 400W Hot Swap Redundant power supply

Cooling System

- Built-in (2)Temperature & (8)Fan Detect Board for system environmental monitoring
- Optional 60mm Ball-bearing Fans

Ports

- Two USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
  (6) HDD Active LED
  (1) Fan Failure LED
  (2)Temperature Sensor LED

Dimensions

- 427 (W) x 480 (D) x 88.2 (H) mm
- 16.8 (W) x 18.9 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

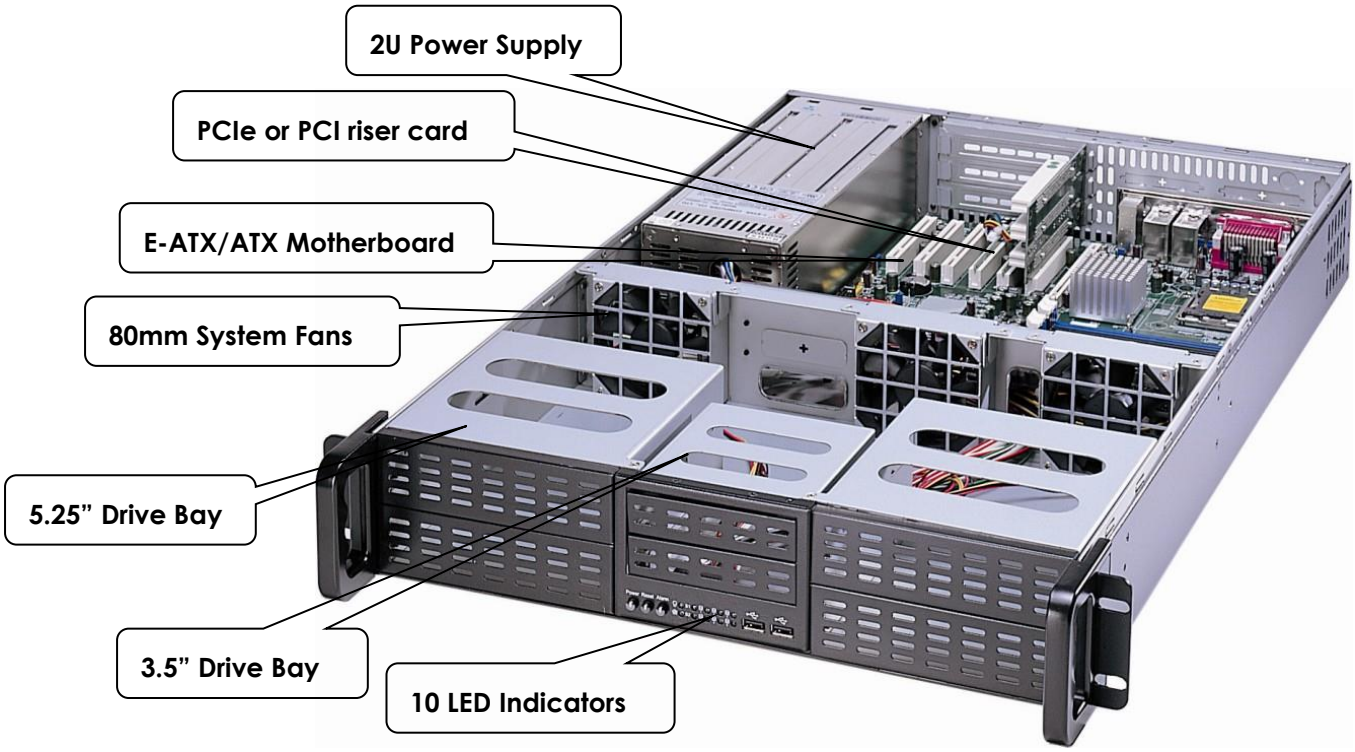
Gross Weight

- 10.9kg

Ordering Information

RCK-206M -PCI303-300W	RCK-206M with 2U 300W ATX PSU & PCI riser card
RCK-206M -PCIE303-300W	RCK-206M with 2U 300W ATX power supply & PCIE-303 riser card
RCK-206M -PCI303-400WR	RCK-206M with 2U 400W ATX Hot Swap Redundant power supply with Active PFC function
PCIE-303	Riser card with (2) 32-bit PCI slot + (1) PCIe x16 slot

RCK-206ME



Introduction

The **RCK-206ME** is a new designed 2U chassis for motherboard with high density driver bays. It is constructed of heavy duty steel and supports extended ATX 12”x13” motherboards. Since it is configured for DVR application, it can accommodate two 3.5" Floppy drives and four 5.25" external driver bays.

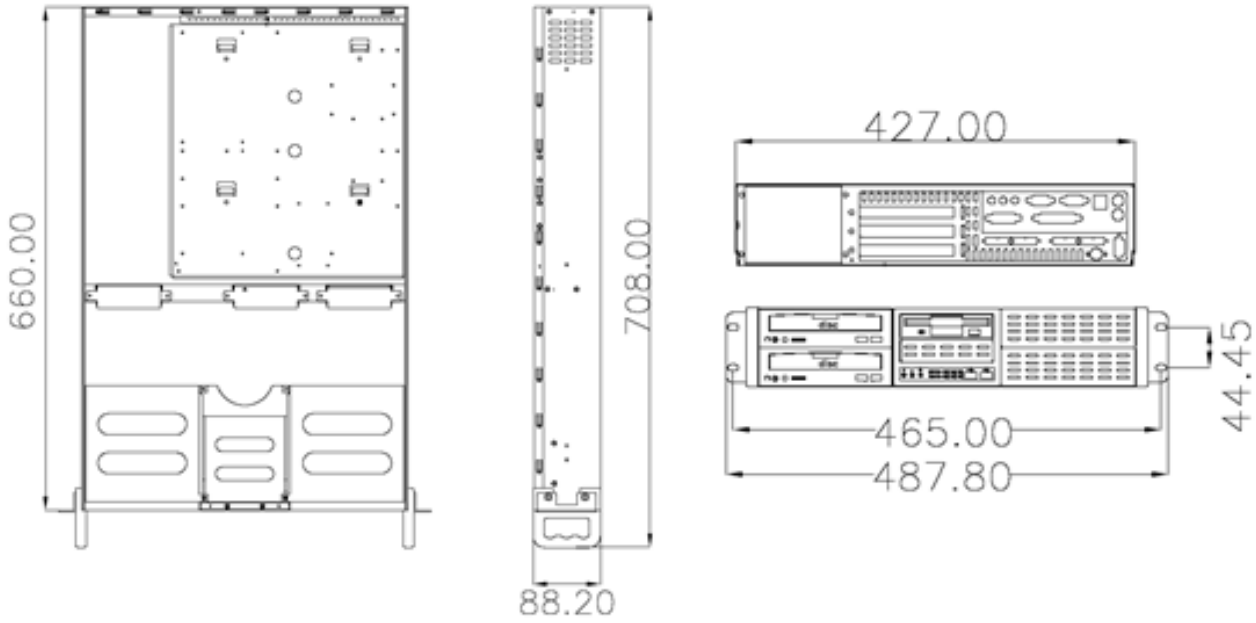
Besides, **RCK-206ME** has a built in "system monitoring boards" to monitor the status of the system. The users can easily trace the status of the system by viewing the LED at the front panel of the chassis.

Features

- Standard 2U 19" Rackmount chassis
- Heavy duty steel
- 300 Watt 2U power supply with option for 400W Redundant power supply
- Riser card with 3 PCI expansion slots, or one PCIe x16 slot & 2 PCI expansion slots
- 10 LEDs indicators to monitor the system

RCK-206ME

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black

Board Support

- E-ATX, ATX and micro-ATX Motherboard

Drive Bays

- (2) 3.5" and (4) 5.25 external drive bays

Expansion

- (3) 32-bit PCI slot through riser card
- Or (2) 32-bit PCI slot + (1) PCIe x16 slot

Power Supply

- 300W ATX power supply or 400W Hot Swap Redundant power supply

Cooling System

- Built-in (2)Temperature & (8)Fan Detect Board for system environmental monitoring
- (3) 80mm Ball-bearing Fans

Ports

- Two USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
  (6) HDD Active LED
  (1) Fan Failure LED
  (2)Temperature Sensor LED

Dimensions

- 427 (W) x 660 (D) x 88.2 (H) mm
- 16.8 (W) x 26.0 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 14kg

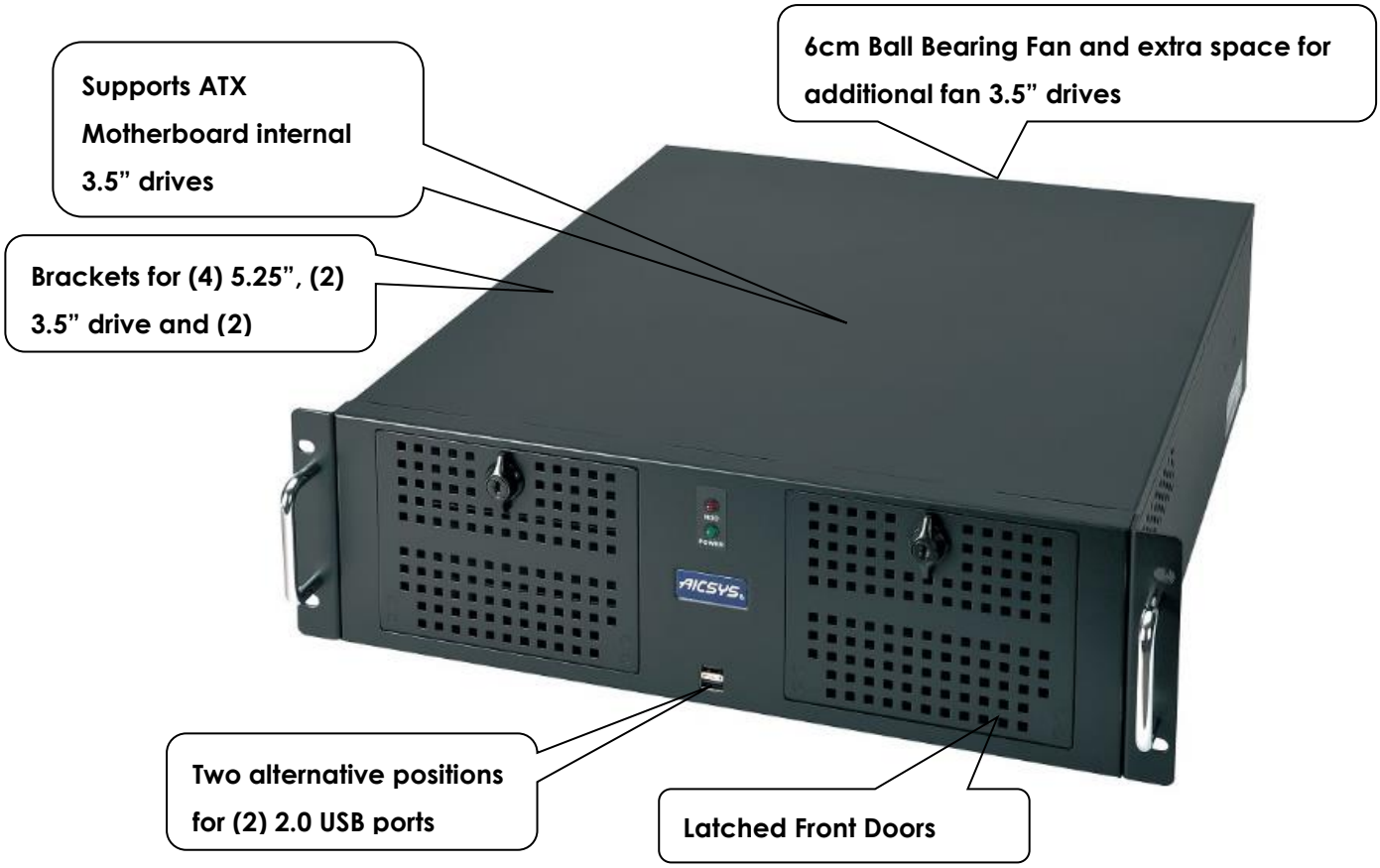
Ordering Information

RCK-206ME -PCI303-300W	RCK-206ME with 2U 300W ATX power supply & PCI riser card
RCK-206ME -PCIE303-300W	RCK-206ME with 2U 300W ATX power supply & PCIE-303 riser card
RCK-206ME -PCI303-400WR	RCK-206ME with 2U 400W ATX Hot Swap Redundant power supply with Active PFC function
PCIE-303	Riser card with (2) 32-bit PCI slot + (1) PCIe x16 slot

3U Ruggedized Industrial Chassis



RCK-308M2



Introduction

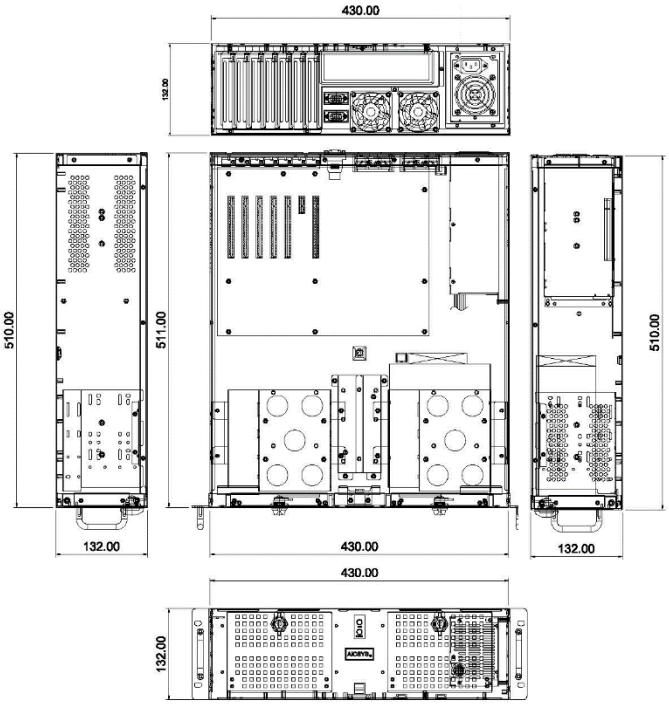
The **RCK-308M2** 3U Rackmount Chassis provides a classy and resourceful solution for a variety of Industrial applications using ATX motherboard. Besides external four 5.25" bays and two 3.5" bays, **RCK-308M2** offers two 3.5" shock resistive drive bays; sufficient for applications that use quite significant number of drivers without having to use very bulky 4U chassis. Two levels temperature management relies on two 4cm ball-bearing fan that provide excellent cooling. **RCK-308M2** offers two 2.0 USB ports.

Features

- Standard 3U 19" Rackmount Chassis
- Heavy Duty Steel with Ni plating RoHS compliant
- Front Panel with Lockable Doors to Protect Drives
- (4) 5.25", (2) 3.5" FDD, (2) 3.5" internal HDD drive bays with shock-resistant drive brackets
- (2) 2.0 USB ports with two alternative positions to choose
- Supports ATX Motherboard
- Extra space for one additional 4cm fan

RCK-308M2

Mechanical Drawing



Construction

- Zinc-Coated Steel with Aluminum Alloy front bezel

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (4) 5.25" and (2) 3.5" external drives and (2) 3.5" internal drives

Expansion

- 7-Slots for full size add-on cards

Power Supply

- Supports 2U/3U ATX power supply

Cooling System

- Two extra space for additional 4cm fans

Ports

- Two USB ports on front panel

Cooling System

- (2) 4cm ball-bearing fans

Power Supply

- 2U & 3U ATX Power supply

Operation Temperature

- 0~55 °C

Dimension

- 430mm (W) x 132mm (H) x 510mm (D)

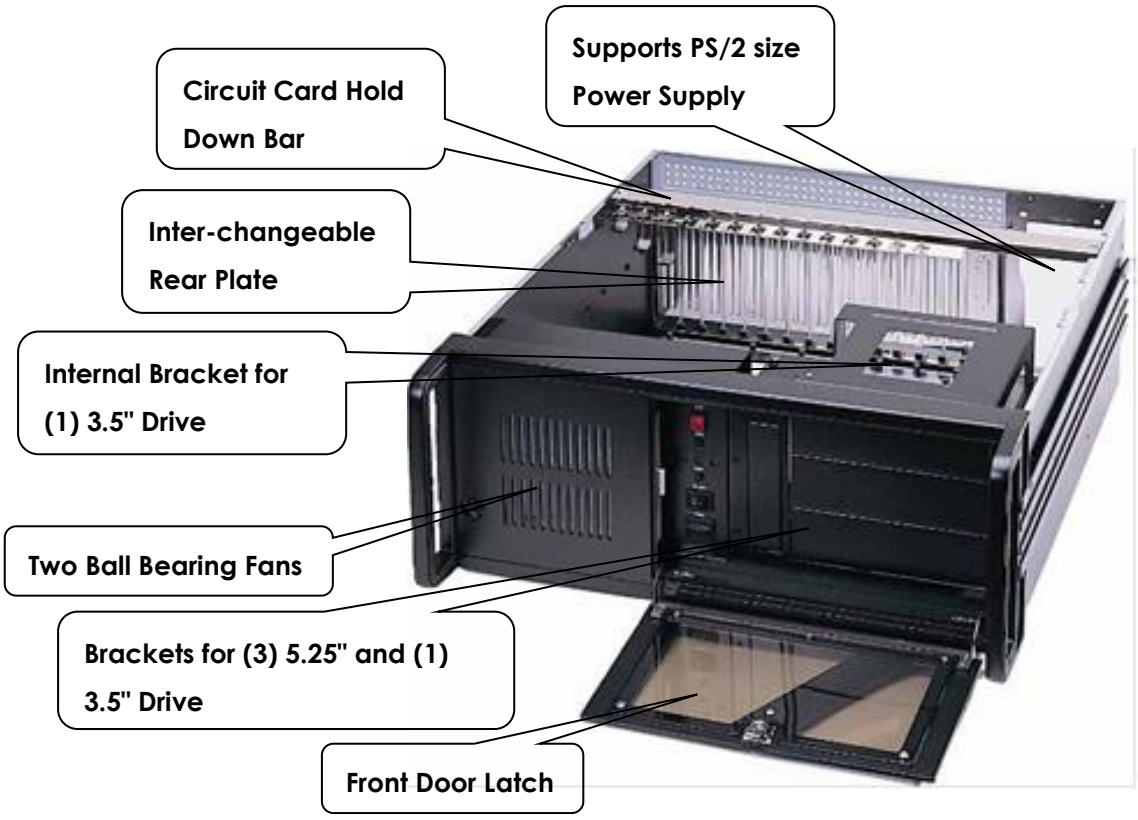
Ordering Information

RCK-308M2	3U Rackmount chassis for ATX MB with (8) drive bays
RCK-308M2-400W	3U Rackmount chassis for ATX MB with (8) drive bays and 400W PSU
RCK-308M2-500W	3U Rackmount chassis for ATX MB with (8) drive bays and

4U Ruggedized Industrial Chassis



RCK-405



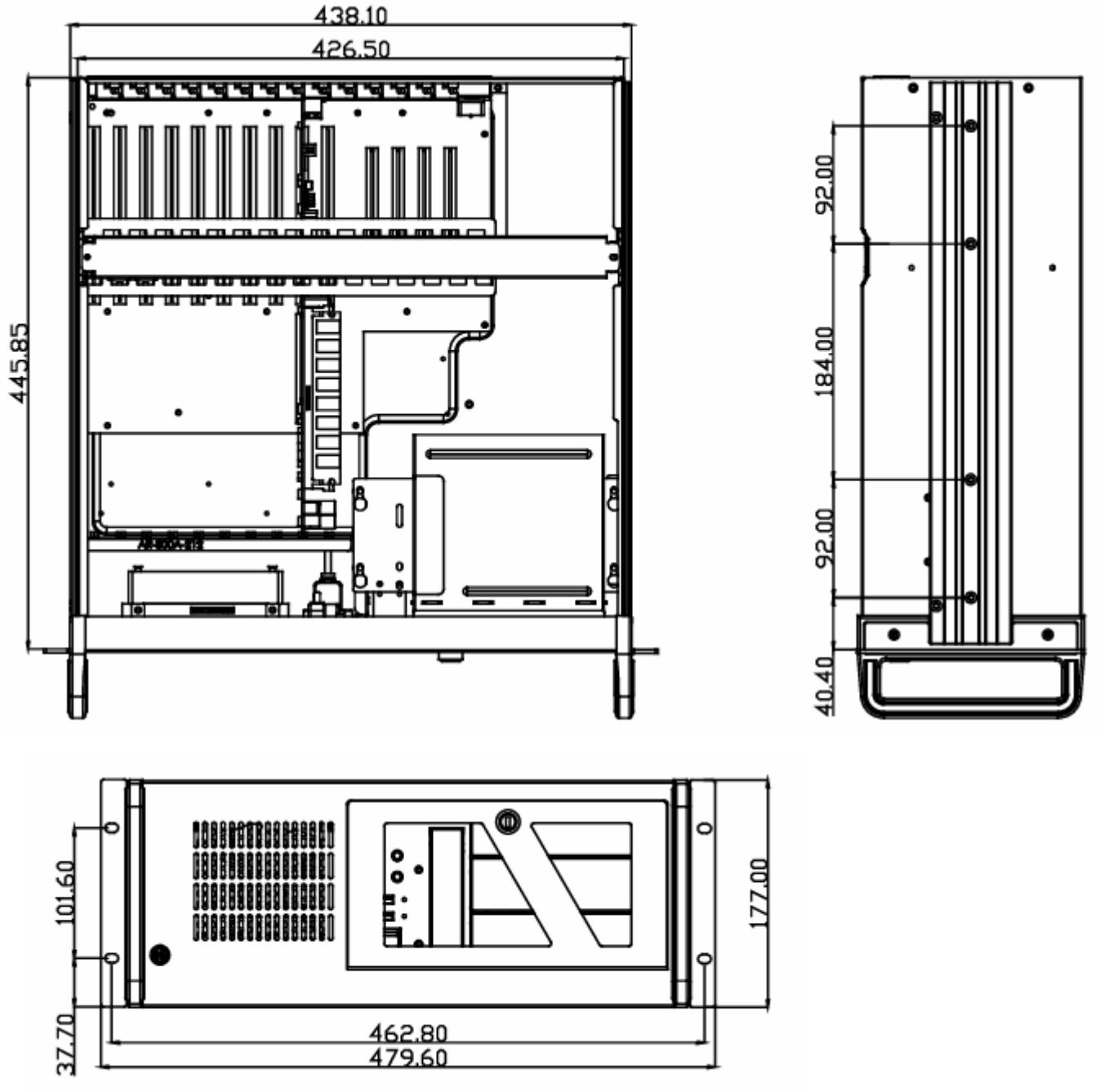
Introduction

The **RCK-405** 4U Rackmount Chassis provides a cost effective solution for a variety of Indus-trial applications. It is easily configurable to support either an ATX Motherboard or a 14-slot PICMG backplane by simply changing the rear panel. The **RCK-405** can support up to five shock resistant drives (3-5.25"/1-FDD/1-HDD) and a retaining bar is included to hold expansion cards in place for those applications which encounter a high level of vibration. Both AT and ATX PS/2 size Power Supplies are supported by the **RCK-405** for any applications with unique power requirements.

Features

- 4U 19" Rackmount Chassis
- Front Panel with Lockable Door to Protect Drives
- (2) 3.5" and (3) 5.25" Drive Bays
- (2)Front USB 2.0 Ports (optional)
- Changeable rear I/O shield
- Anti Vibration Card Clamp
- Motherboard or Backplane Support

Mechanical Drawing



RCK-405

Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige

Board Support

- Backplane (405B2)/ ATX Motherboard (405M2)

Drive Bays

- (3) 5.25" + (1) 3.5" external drives and (1) 3.5" internal drives

Expansion

- Depends on backplane or motherboard

Power Supply

- ATX power supply/ Mini-Redundant Power

Cooling System

- One 12 cm and one 8 cm ball bearing fans with replaceable air filter

Ports

- One front panel connector for keyboard
- Optional (2) USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
  (6) HDD Active LED

Dimensions

- RCK-405M2/405B2:
  438.1(W) x 445.85(D) x 177(H) mm
  17.2(W) x 17.5(D) x7 (H) inches

Operating Temperature

- 0~55 °C

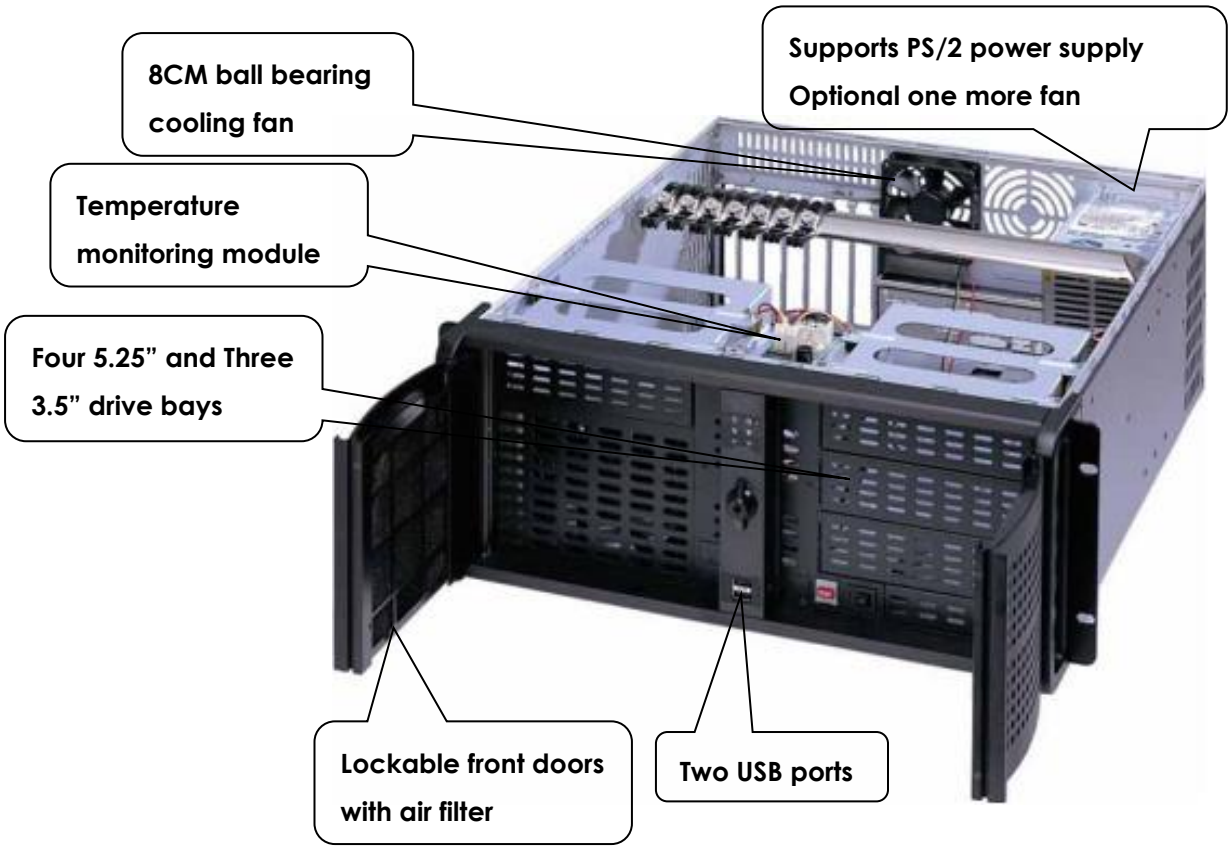
Net/Gross Weight

- RCK-405M/405B: 10.8Kgs/13.8Kgs

Ordering Information

RCK-405B2	4U Rackmount chassis, with (3) 5.25" and (2) 3.5" drive bays for 14/15-slot Backplane
RCK-405M2	4U Rackmount chassis, with (3) 5.25" and (2) 3.5" drive bays for ATX motherboard

RCK-407MA



Introduction

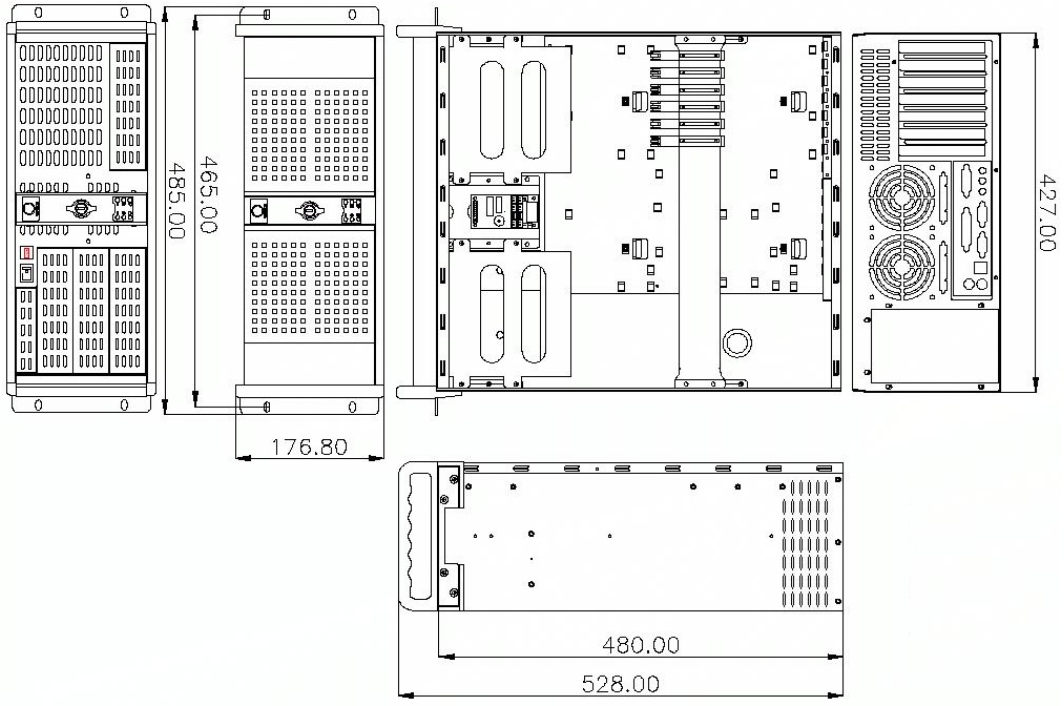
The **RCK-407MA** 4U Rack mount Chassis provides a classy and resourceful solution for a variety of Industrial applications using ATX motherboard. Besides external four 5.25" bays and one 3.5" bays, **RCK-407MA** offers two internal 3.5" shock resistive drive bays. Two levels temperature management relies on one ball bearing 12cm fan on the front + 8cm fan on the rear and System Environmental Monitor that warns users when the system temperature is above normal. One extra space for optional additional 8 cm fan is provided for more heat sensitive application. **RCK-407MA** offers two alternative positions for two 2.0 USB ports & supports 4U ATX Power Supplies.

Features

- Standard 4U 19" Rackmount Chassis
- Heavy Duty Steel with Ni plating
- Front Panel with Lockable Doors
- (4) 5.25", (1) 3.5" FDD, (2) 3.5" internal HDD drive bays in two shock-resistant cages
- Two 2.0 USB ports
- ATX Motherboard Support System Environmental Monitor
- Extra space for one additional 8cm fan

RCK-407MA

Mechanical Drawing



Construction

- Zinc Coated Steel with Aluminum Alloy front

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (4) 5.25", (1) 3.5" for external, (2) 3.5" for internal

Expansion

- (7) slots for full size add-on cards

Power Supply

- PS/2 power supply

Cooling System

- 12 cm front fan with air filter, (1) 8 cm fan on the rear and environmental monitoring board. (1) extra space for additional 8cm fan

Ports

- (2) USB2.0 ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- (1) HDD LED
- Fan & Alarm

Dimensions

- 427 (W) x 480 (D) x 176.8 (H) mm
- 16.8 (W) x 18.9 (D) x 7 (H) inches

Operating Temperature

- 0~55 °C

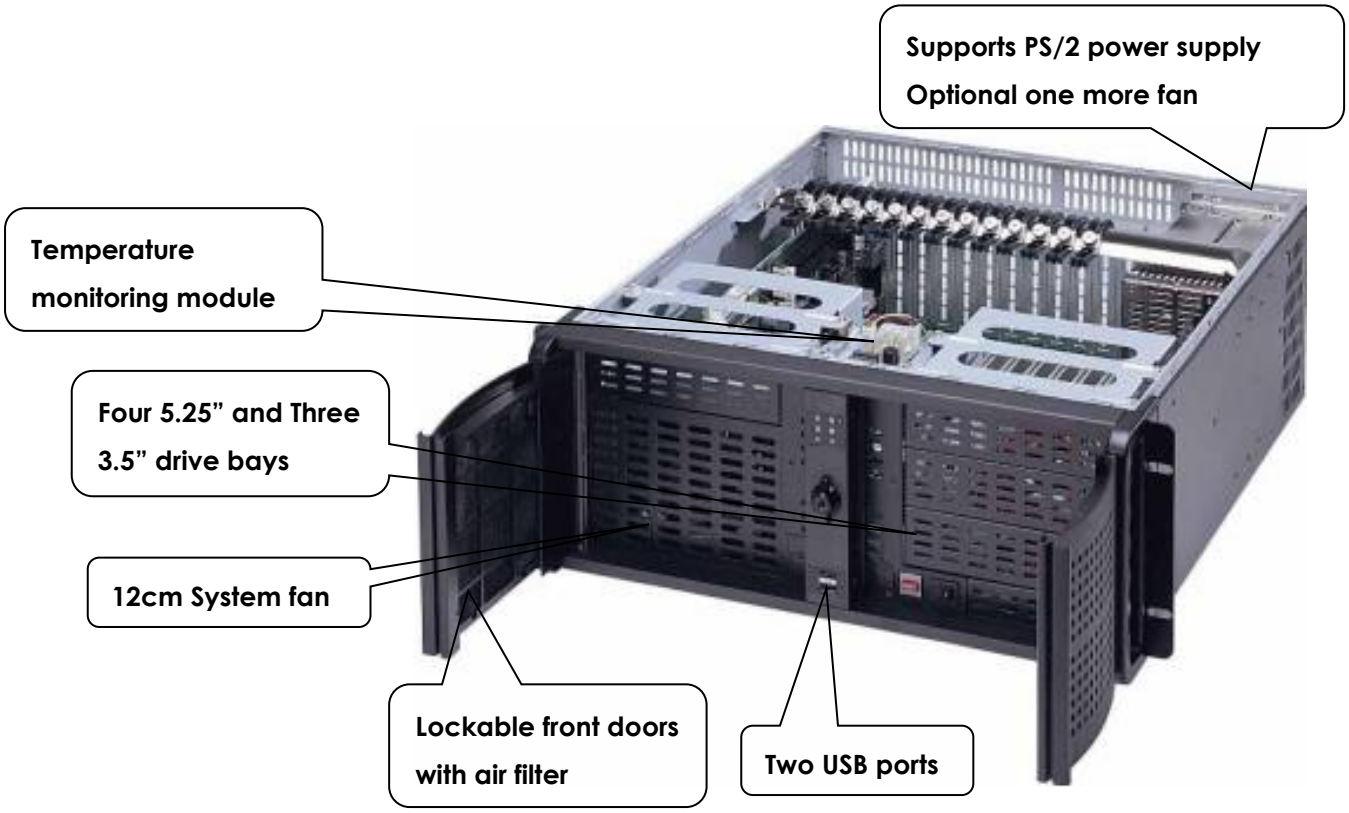
Net/Gross Weight

- 12Kgs/15.6Kgs

Ordering Information

RCK-407MA	4U chassis for ATX motherboard
RCK-407MA-400W	RCK-407MA with 400W PS/2 Power Supply
MT-SR01	Optional slide rail

RCK-407BA



Introduction

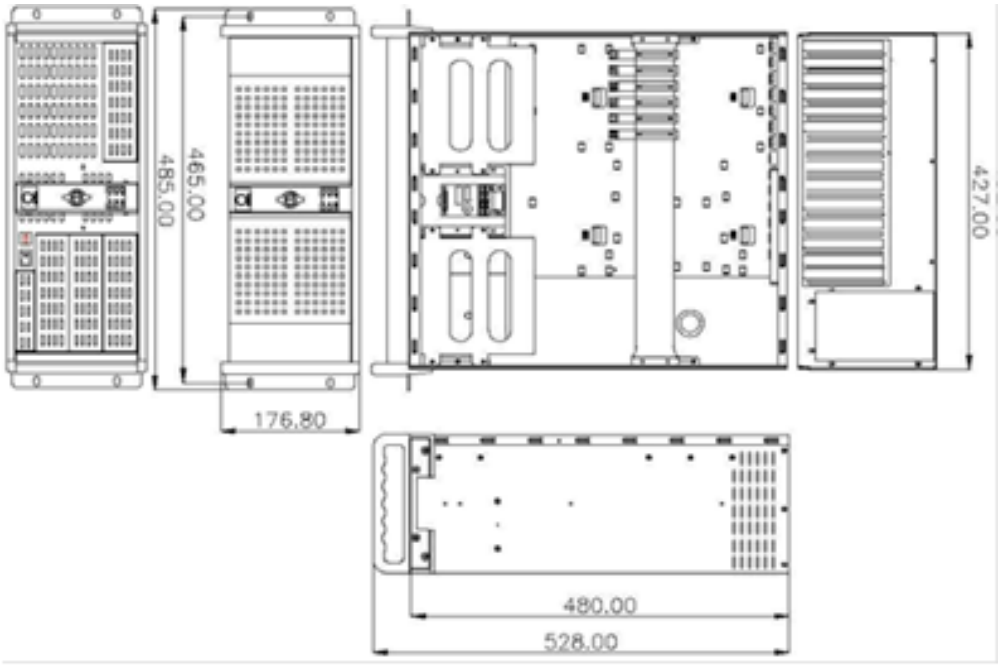
The **RCK-407BA** 4U Rack mount Chassis provides a classy and resourceful solution for a variety of Industrial applications using single board computer with backplane. Besides external four 5.25" bays and one 3.5" bays, **RCK-407BA** offers two internal 3.5" shock resistive drive bays. Two levels temperature management relies on one ball bearing 12cm fan on the front and System Environmental Monitor that warns users when the system temperature is above normal. **RCK-407BA** offers two alternative positions for two 2.0 USB ports & supports 4U ATX Power Supplies.

Features

- Standard 4U 19" Rackmount Chassis
- Heavy Duty Steel with Ni plating
- Front Panel with Lockable Doors
- (4) 5.25", (1) 3.5" FDD, (2) 3.5" internal HDD drive bays in two shock-resistant cages
- Two 2.0 USB ports
- 14-slot backplane & System Environmental Monitor supported

RCK-407BA

Mechanical Drawing



Construction

- Zinc Coated Steel with Aluminum Alloy front bezel

Color

- Black

Board Support

- 14-slot backplane

Drive Bays

- (4) 5.25", (1) 3.5" for external, (2) 3.5" for internal

Expansion

- Depends on Backplane

Power Supply

- PS/2 power supply

Cooling System

- 12 cm front fan with air filter

Ports

- (2) USB2.0 ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- (1) HDD LED
- Fan & Alarm

Dimensions

- 427 (W) x 480 (D) x 176.8 (H) mm
- 16.8 (W) x 18.9 (W) x 7 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 15.5kg/34.1lbs

Ordering Information

RCK-407BA	4U chassis for backplane with SBC
RCK-407BA-400W	RCK-407BA with 400W PS/2 PFC Power Supply
RCK-407BA-400WR	RCK-407BA with 400W mini redundant PFC Power Supply

Ruggedized Wallmount Chassis



WMC-103M



Introduction

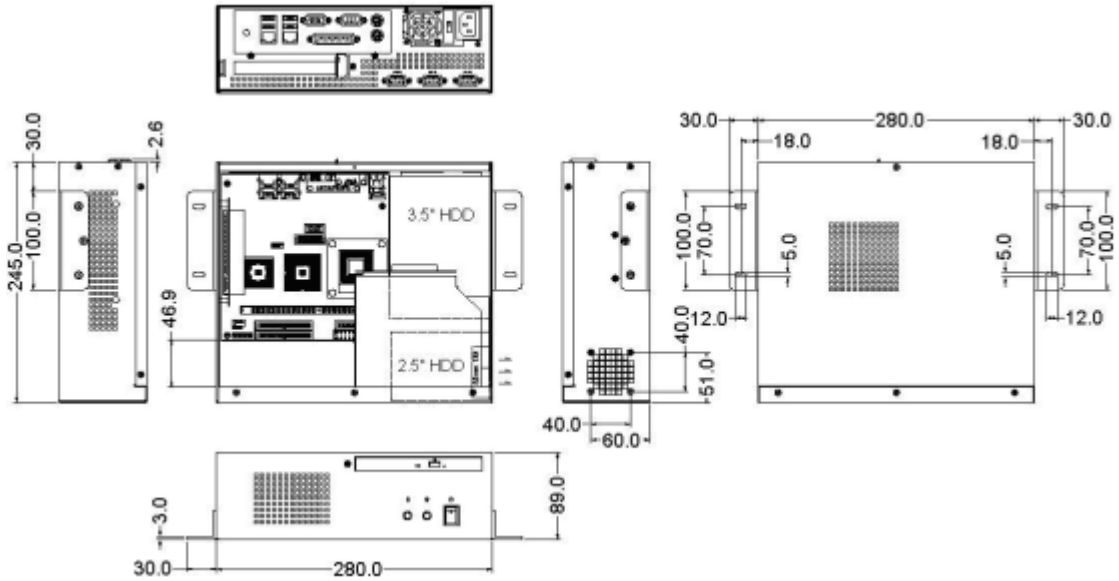
WMC-103M is a compact wallmount industrial chassis designed for Pentium M / Celeron M Mini-ITX motherboard. Regardless its size, it supports a total of 3 drive bays ; (1) Slim CDROM, (1) 3.5" HDD and (1) 2.5" HDD, make it the best choice for applications that require separation of Operating System Disk and disk for data. **WMC-103M** offers expand-ability through a 1-slot PCI/PCI-E Riser Card. Although the chassis no doubt supports fanless operations of CPU board with lower speed Pentium M / Celeron M, one 52mm fan is provided for higher speed applications. The system is powered by up to 250W ATX power supply for Pentium M/Celeron M and optional power supply to support P4 CPU board.

Features

- Mini-ITX Chassis
- Heavy duty steel construction industrial chassis can be mounted vertically or horizontally
- Drive Bays for (1) Slim CDROM, (1) 3.5" HDD, and (1) 2.5" HDD.
- 52mm fan for higher speed applications.
- Supports (1) expansion slot through riser card
- Up to 250W ATX Power Supply

WMC-103M

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Mini-ITX motherboard

Drive Bays

- Slim CDROM, (1) 3.5", and (1) 2.5" internal drives for HDD

Expansion

- One Slot PCI/PCI-E 16x riser card

Power Supply

- Up to 250W ATX power supply

Cooling System

- 52mm Fan

Switches

- Power On/Off switch

Indicators

- Power on/off LED, and HDD LED

Dimensions

- 280 (W) x 245 (D) x 89 (H) mm
- 11 (W) x 9.6 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

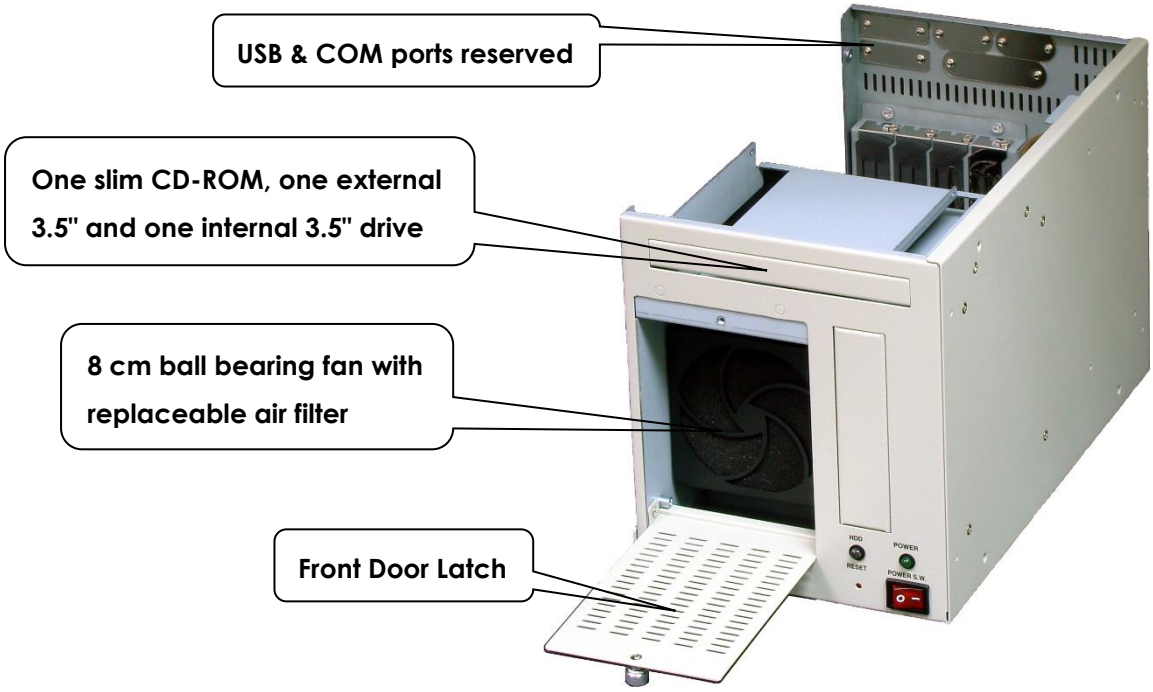
Net/Gross Weight

- 2Kgs/3Kgs

Ordering Information

WMC-103M-200W	Mini-ITX Compact Wallmount Chassis with 3 Drive Bays, 1 PCI Riser Card with 200W PSU
WMC-103M-250W	With 250W (80PLUS Bronze) ATX power supply
WMC-103M	Mini-ITX Compact Wallmount Chassis
PCIE-101R	1-slot PCI-e 16x Riser Card

WMC-403B



Introduction

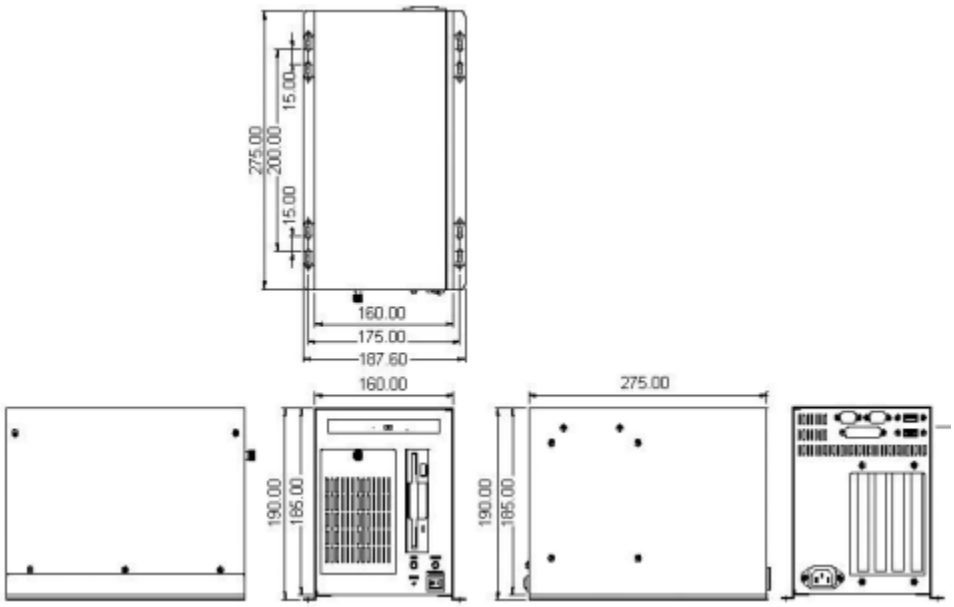
The **WMC-403B** is a 4 slot mini "shoe-box" industrial wallmount chassis. Small yet rugged, the **WMC-403B** is constructed of heavy-duty steel and has an 8CM ball-bearing fan with replaceable filter. Designed to support "Plug-n-Play" SBC's, the **WMC-403B** comes standard with an ISA backplane. An open frame Power Supply and Drive Bay space for (1) Slim CD/DVD and (2) 3.5" HDD or FDD bays round out the features of the **WMC-403B**. The **WMC-403B** is the best choice for any Industrial Computing application where size is at a premium.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally.
- One slim CD-ROM drive-bay and two 3.5" drive bays (one hidden).
- 8cm ball bearing fan with replaceable air-filter
- 4-slot PCI or ISA backplane included
- Open Frame 70W AT/ 80W & 120W ATX power supply

WMC-403B

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Beige

Board Support

- Half Size PIII/PIV Single Board Computer

Drive Bays

- (1) slim CD-ROM + (1) 3.5" external drive and (1) 3.5" internal drive

Expansion

- 4-slot PCI or ISA Backplane

Power Supply

- Open Frame 70W AT/ 80W & 120W ATX power supply

Cooling System

- One 8 cm ball bearing fan with replaceable air filter

Switches

- On/Off switch, reset switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 160 (W) x 275 (D) x 190 (H) mm
- 6.3 (W) x 10.8 (D) x 7.5 (H) inches

Operating Temperature

- 0~55 °C

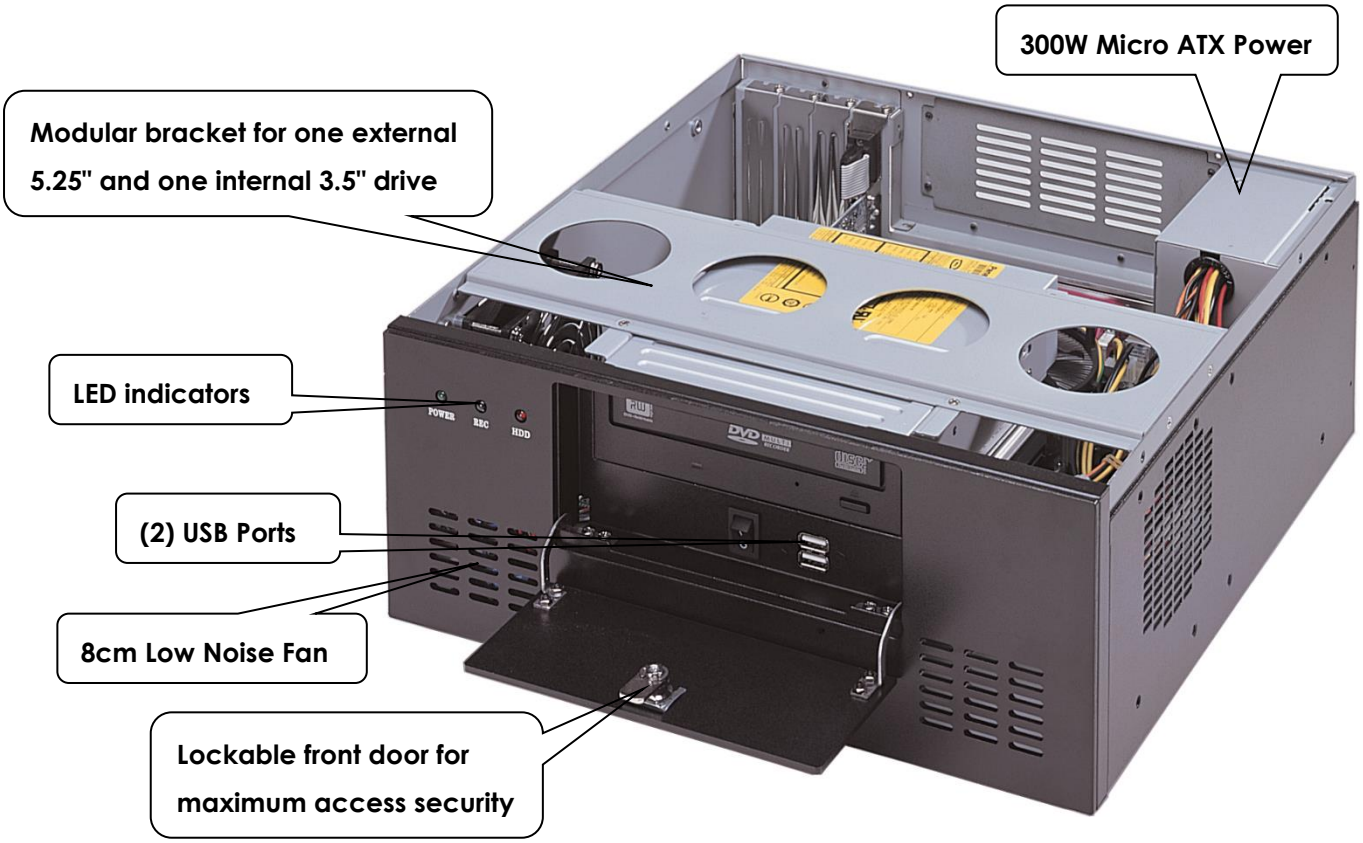
Gross Weight

- 4.4kg/9.7lbs

Ordering Information

WMC-403B	For Half-size SBC, (1) 5.25" Drive Bay, (2) 3.5" Drive Bays, (1) 8cm Fan with removable filter
WMC-403B -0400P-70W	WMC-403B with 4-slot ISA backplane and 70W AT PSU,
WMC-403B -0400P-80W	WMC-403B with 4-slot ISA backplane and 80 ATX PSU
WMC-403B -0403P-120W	WMC-403B with 4-slot PCI backplane and customize 120W ATX PSU, Beige color

WMC-402M



Introduction

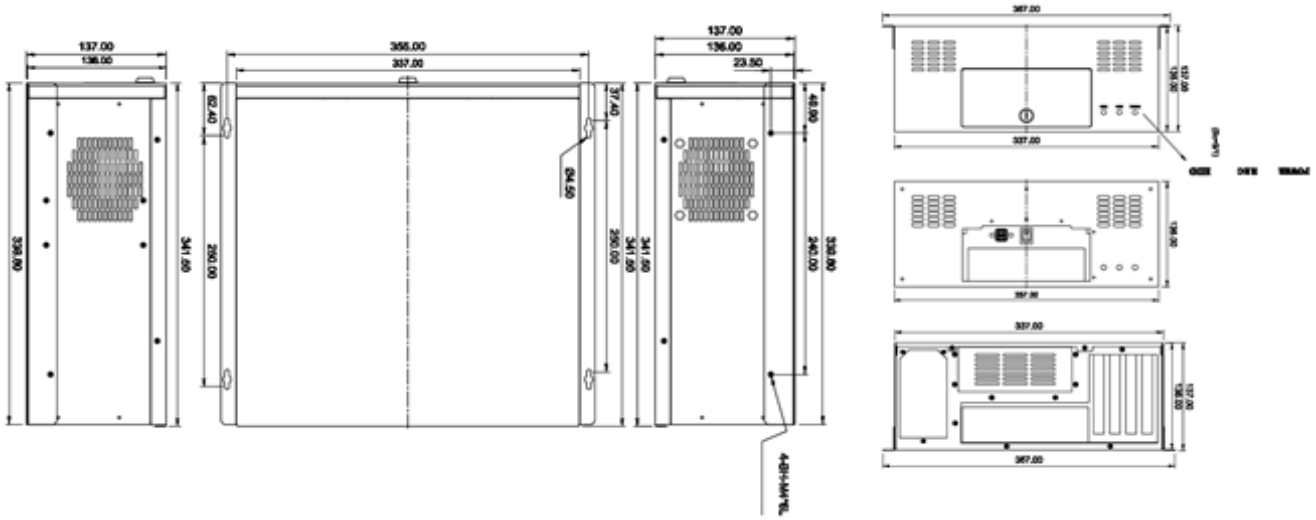
WMC-402M "Hawkeye" is the wallmount /desktop industrial grade chassis specifically designed for PC based Digital Video Recording system for security, monitoring, transaction, access control and other safety applications. Within its heavy-duty steel construction it supports standard micro-ATX size, one external 5.25" drive bay for CD-ROM/DVD-ROM and one internal 3.5" drive bay for HDD, sufficient for small video system management. One super Low-Noise 8 cm fan ensures excellent airflow for superior system cooling while maintaining the silence and tranquility of the room. The system is powered by micro-ATX 300W power supply which is sufficient to support the system full loaded. **WMC-402M** is definitely the perfect choice for surveillance system in residential and commercial area.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally
- Perfect replacement for VCR time-lapse CCTV systems, it is an affordable Digital Video Management System for small businesses and homes, for Digital Signage, Video Wall or Data Wall
- One 5.25" CD-ROM drive-bay and one 3.5" drive bay for HDD
- 8cm low-noise ball bearing fan with air ventilation for excellent airflow
- 300W Micro ATX power supply (80PLUS Certified)
- Modular design for easy installation and maintenance

WMC-402M

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Micro ATX motherboard

Drive Bays

- (1) 5.25" CD-ROM + (1) 3.5" internal drive for HDD

Expansion

- Supports up to 4-slots

Power Supply

- 300W Micro ATX active PFC power supply

Cooling System

- One 8cm low-noise ball bearing fan

Ports

- 2 USB Ports on Front Panel

Switches

- Power On/Off switch

Indicators

- On/off LED, HDD LED and one recording in progress LED Defined LED

Dimensions

- 337 (W) x 339.8 (D) x 136 (H) mm
- 13.3 (W) x 13.4 (D) x 5.4 (H) inches

Operating Temperature

- 0~55 °C

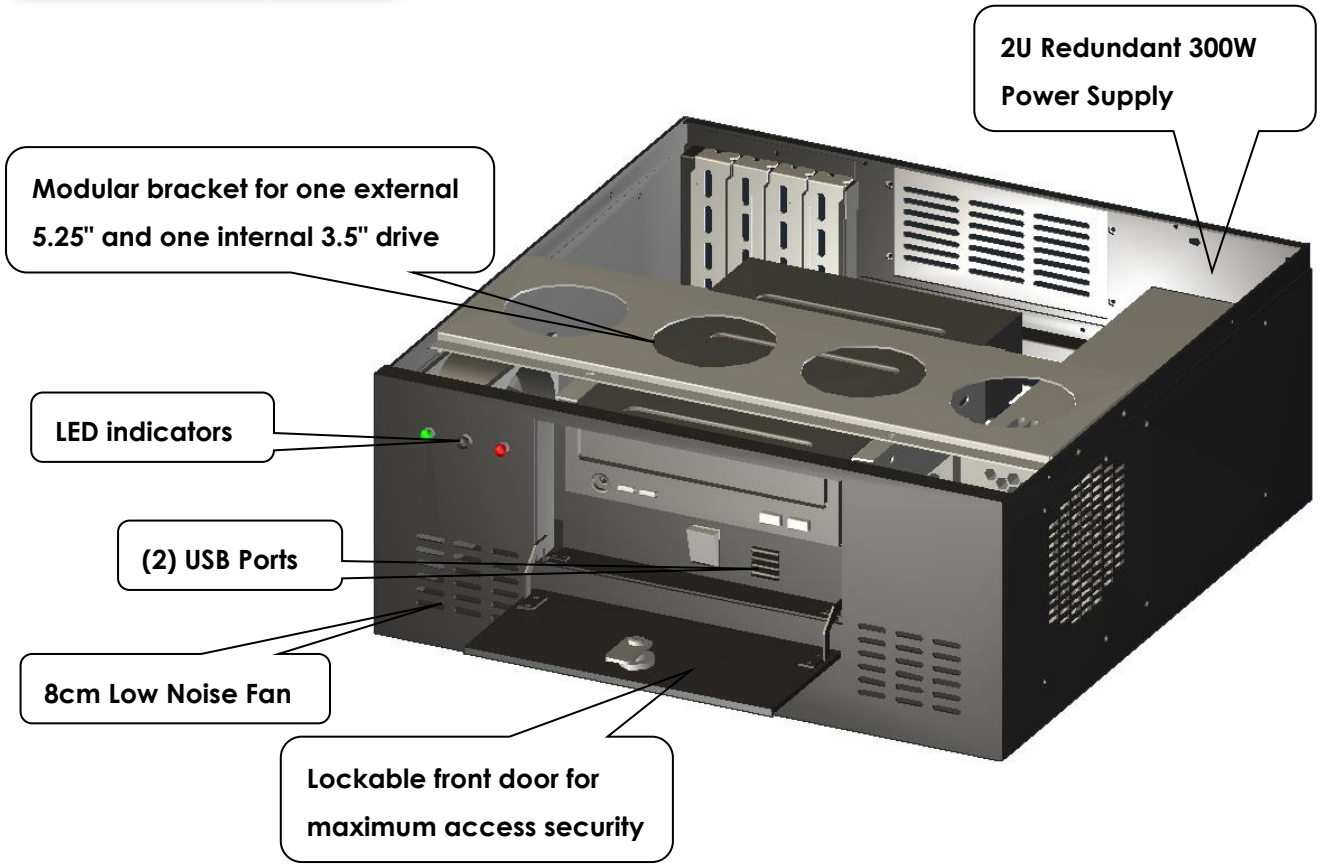
Net/Gross Weight

- 5.1Kgs/8Kgs

Ordering Information

WMC-402M-300W	Compact chassis with (2) drive bays, 300W Micro ATX power supply for micro-ATX motherboard
WMC-402M	Compact chassis with (2) drive bays

WMC-402MR



Introduction

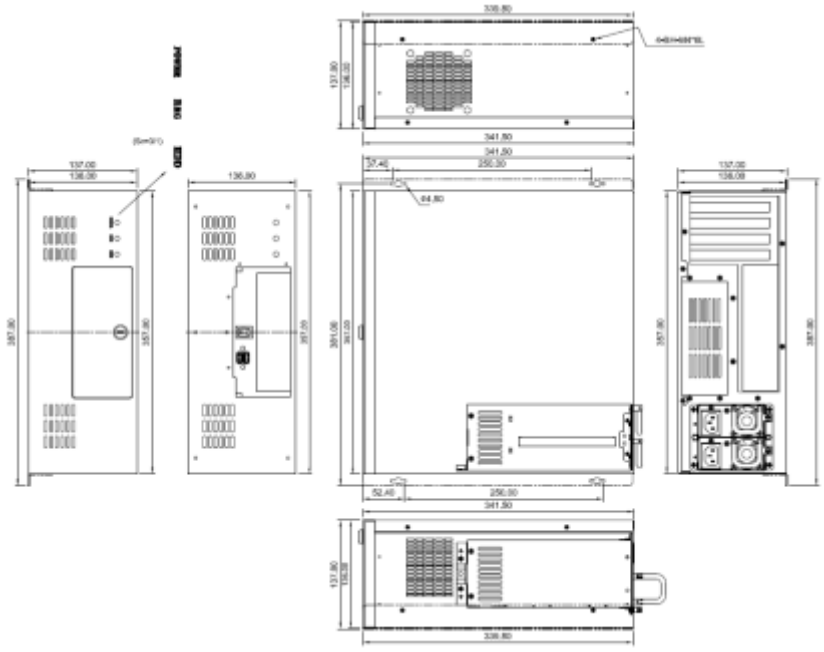
WMC-402MR "Hawkeye" is the wall mount /desktop industrial grade chassis specifically designed for PC based Digital Video Recording system for security, monitoring, transaction, access control and other safety applications. Within its heavy-duty steel construction it supports standard micro-ATX size, one external 5.25" drive bay for CD-ROM/DVD-ROM and one internal 3.5" drive bay for HDD, sufficient for small video system management. One super Low-Noise 8 cm fan ensures excellent airflow for superior system cooling while maintaining the silence and tranquility of the room. The chassis is now powered by **2U Redundant 300w Power Supply** for a critical operating system where the power can never fail for 24 hours, 7 days a week operation.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally
- Perfect replacement for VCR time-lapse CCTV systems, it is an affordable Digital Video Management System for small businesses and homes, for Digital Signage, Video Wall or Data Wall
- One 5.25" CD-ROM drive-bay and one 3.5" drive bay for HDD
- 8cm low-noise ball bearing fan with air ventilation for excellent airflow
- **2U Redundant 300w Power Supply**
- Modular design for easy installation and maintenance

WMC-402MR

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Micro ATX motherboard

Drive Bays

- (1) 5.25" CD-ROM & (1) 3.5" internal drive for HDD

Expansion

- Supports up to 4-slots

Power Supply

- 2U Redundant 300w power supply

Cooling System

- One 8cm low-noise ball bearing fan

Ports

- 2 USB Ports on Front Panel

Switches

- Power On/Off switch

Indicators

- On/off LED, HDD LED and one recording in progress LED Defined LED

Dimensions

- 337 (W) x 339.8 (D) x 136 (H) mm
- 13.3 (W) x 13.4 (D) x 5.4 (H) inches

Operating Temperature

- 0~55 °C

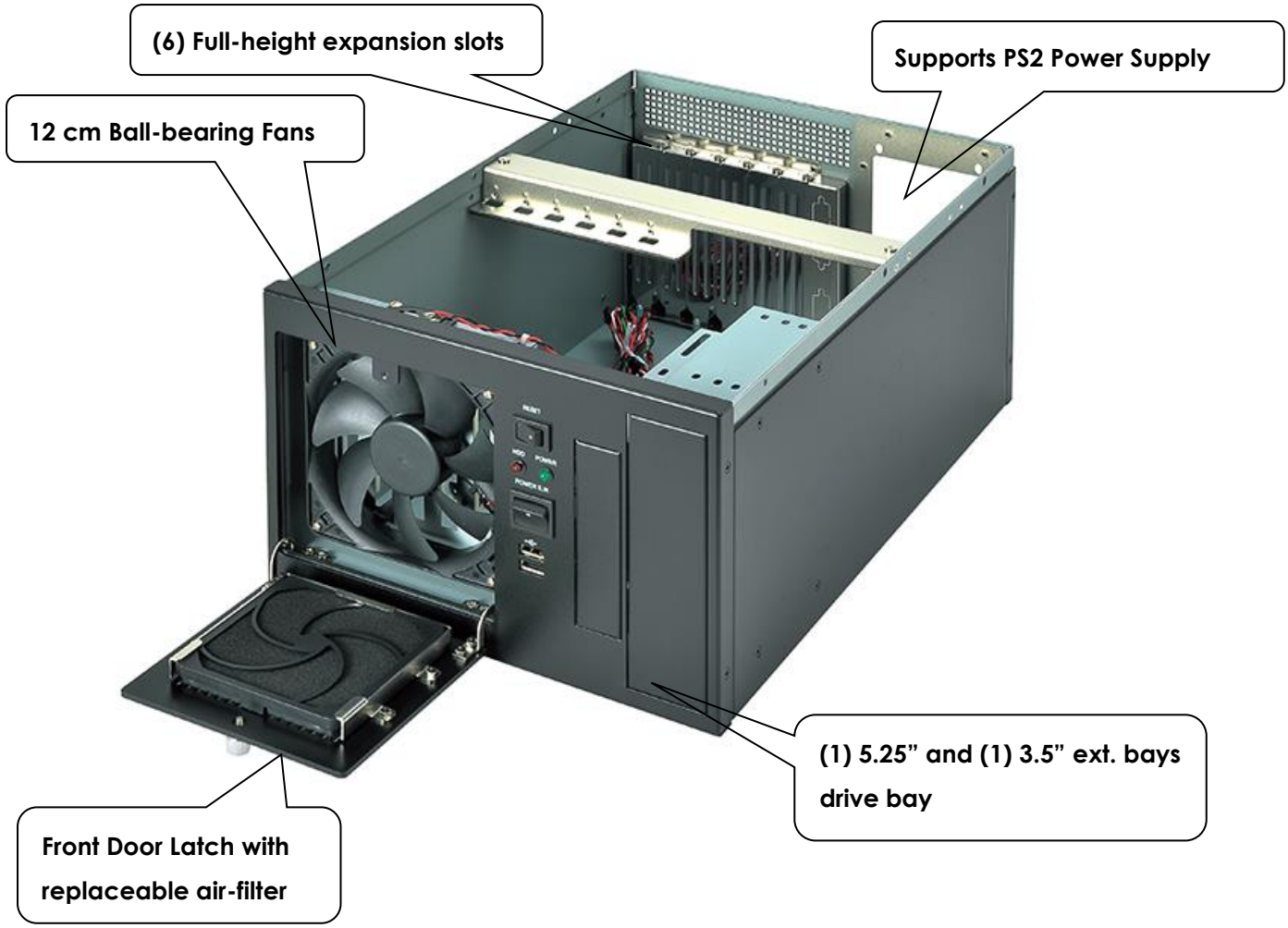
Net/Gross Weight

- 5.1Kgs/8Kgs

Ordering Information

WMC-402MR-300W	Compact chassis with (2) drive bays, 2U Redundant 300w Power Supply for micro-ATX motherboard
WMC-402MR	Compact chassis with (2) drive bays

WMC-603B-RF



Introduction

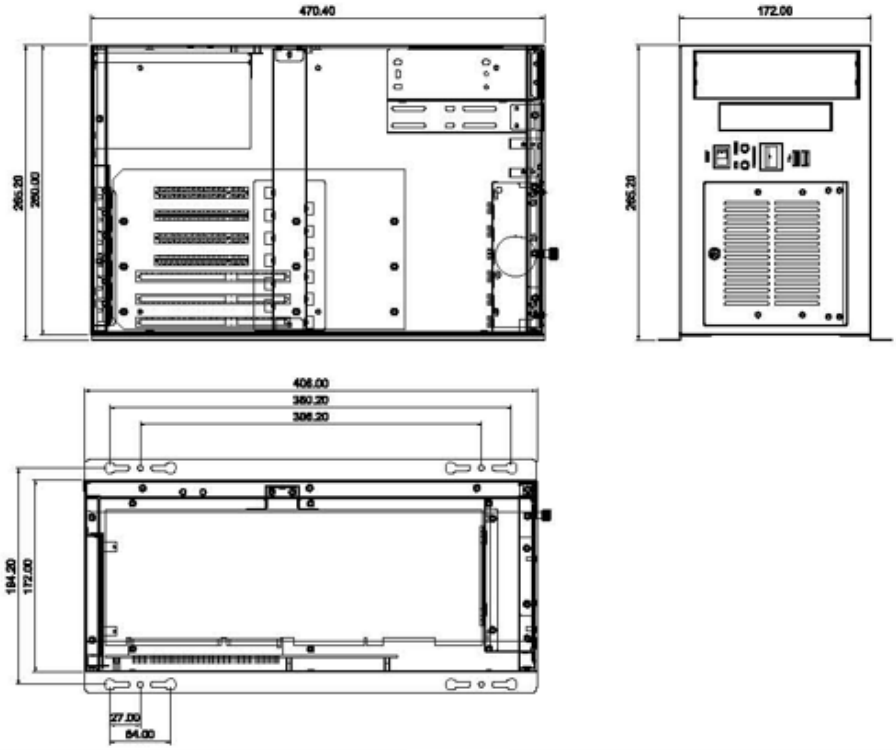
The **WMC-603B-RF** is rugged 6-slot "Shoebox" type Industrial Chassis. Designed for the harshest of environments, the **WMC-603B-RF** is constructed of heavy-duty steel and is outfitted with a hold down bar to stabilize the SBC when used in an application with a substantial amount of shock and/or vibration. With drive bay space for (1) 5.25" ODD and (1) 3.5" HDD drives as well as a 12cm ball-bearing fan with removable air filter, the **WMC-603B-RF** has all the features necessary to provide the perfect chassis solution for a number of industrial computing applications.

Features

- Heavy-duty steel construction shoebox chassis
- Can be mounted horizontally or vertically
- (1) 5.25" and (1) 3.5" ext. drive bays internal drive bay
- (1) 12cm ball-bearing fan with replaceable air filter
- Hold-down bar with clamps
- Supports PS2 single power supply

WMC-603B-RF

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Full-size PICMG Single Board Computer

Drive Bays

- One 5.25" and one 3.5" external drive bays

Expansion

- BPE-0603P: (1) PICMG 1.3, (3) PCI, (1) PCIe x4 and (1) PCIe x16 slots

Power Supply

- Supports PS/2 ATX power supply

Cooling System

- One 12cm ball bearing fan with replaceable air filter

Front Port

- (2) USB 2.0

Switches

- On/Off switch, reset switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 260 (W) x 470.4 (D) x 172 (H) mm
- 10 (W) x 18.5 (D) x 6.8 (H) inches

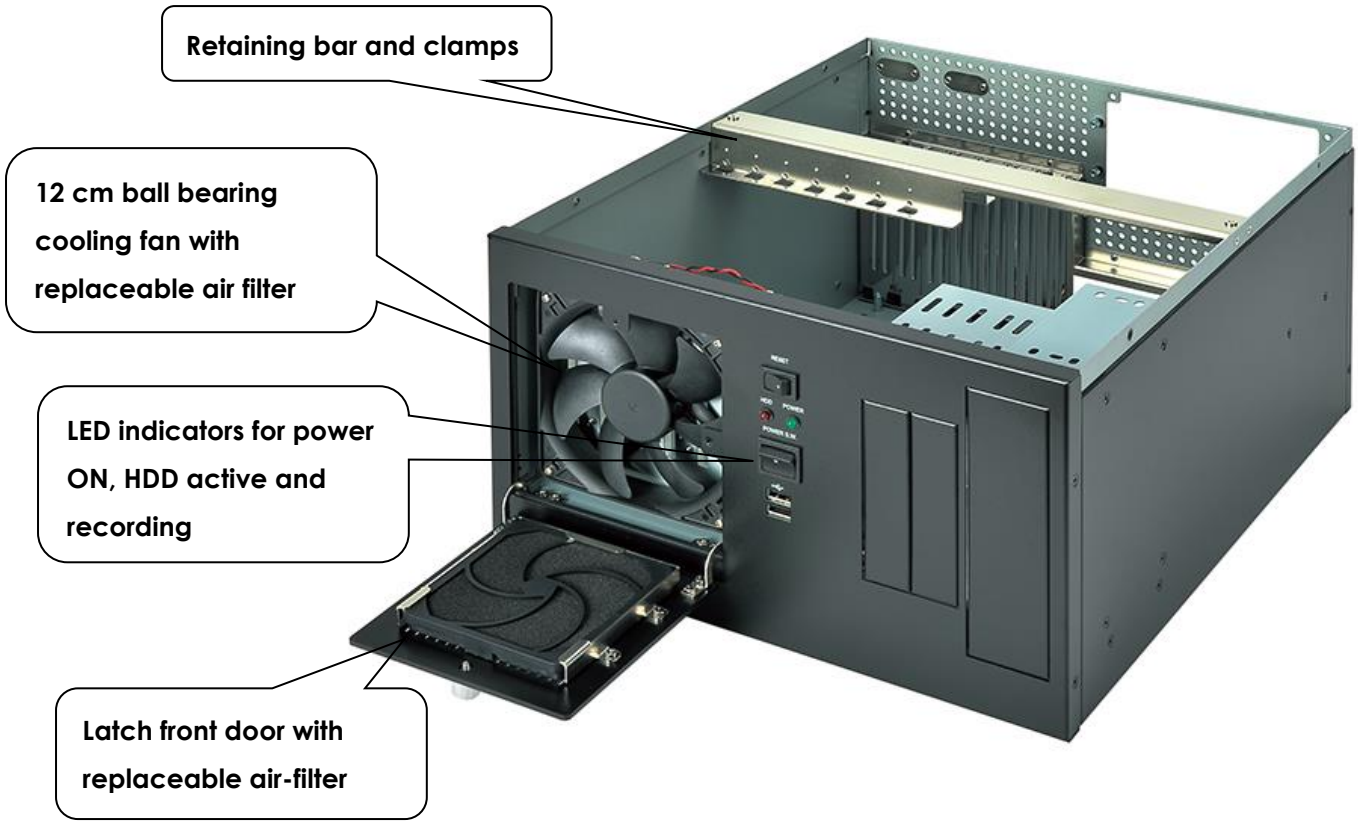
Gross Weight

- 8kg/17.6lbs

Ordering Information

WMC-603B	Wallmount chassis with one 5.25" and two 3.5" drive bays
WMC-603B -0603P	WMC-603B with (1) PICMG 1.3, (3) PCI, (1) PCIe x4 and (1) PCIe x16 backplane
WMC-603B -0603P-600W	WMC-603B with BPE-0603P backplane and PS/2 600W ATX power supply

WMC-704M-RF



Introduction

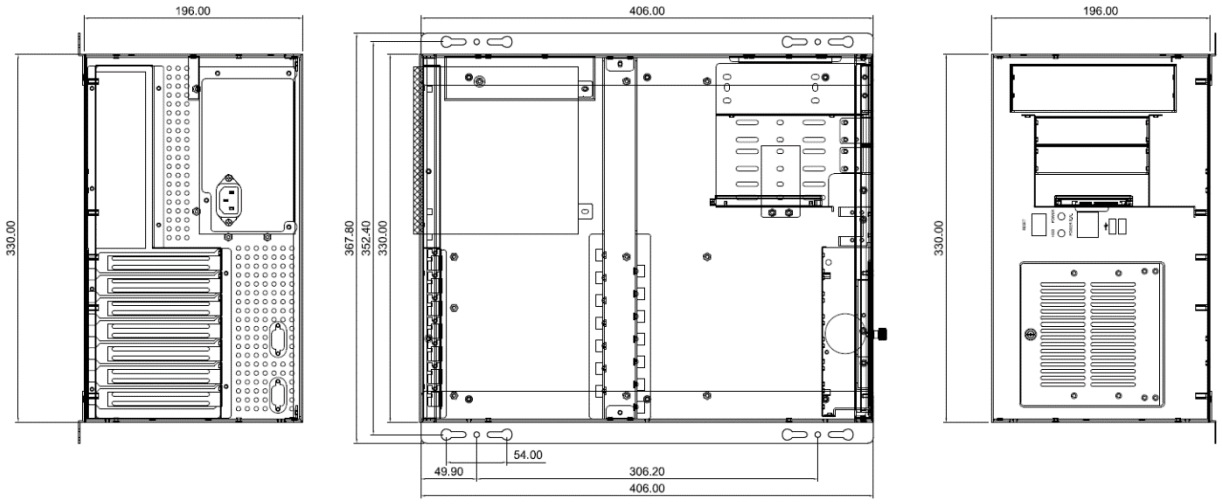
WMC-704M-RF is a standard 7-slot full-length "Shoebox" wallmount or benchtop industrial chassis. It is designed to support ATX motherboard especially for industrial automation applications outside your server room where environment is extra harsh and unfriendly. Within its heavy-duty steel construction, it is equipped with one 5.25", two 3.5" external and one 3.5" internal Drive bay for basic system requirement. Hold-down bar with clamps are provided to ensure stable operations against heavy vibration. A 12cm ball-bearing fan with replaceable air filter ensure excellent and clean cooling system for heavy-load applications. **WMC-704M-RF** offers an ideal solution for computers in public area and mobile computers such as car computers or GPS.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally.
- (1) 5.25", (2) 3.5" external and (1) 3.5 internal drive bays.
- 12 cm ball bearing fan with replaceable air-filter
- Supports PS/2 power supply.

WMC-704M-RF

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (2) 5.25", (2) 3.5" external drives and one 3.5" internal drives

Expansion

- Ready for additional up to (7) additional add-on cards

Power Supply

- PS/2 power supply

Cooling System

- One 12cm ball bearing fan with replaceable air filter

Ports

- (2) USB 2.0 on front panel

Switches

- On/Off switch, reset switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 330 (W) x 406 (D) x 196 (H) mm
- 13 (W) x 16 (D) x 7.7 (H) inches

Operating Temperature

- 0~55 °C

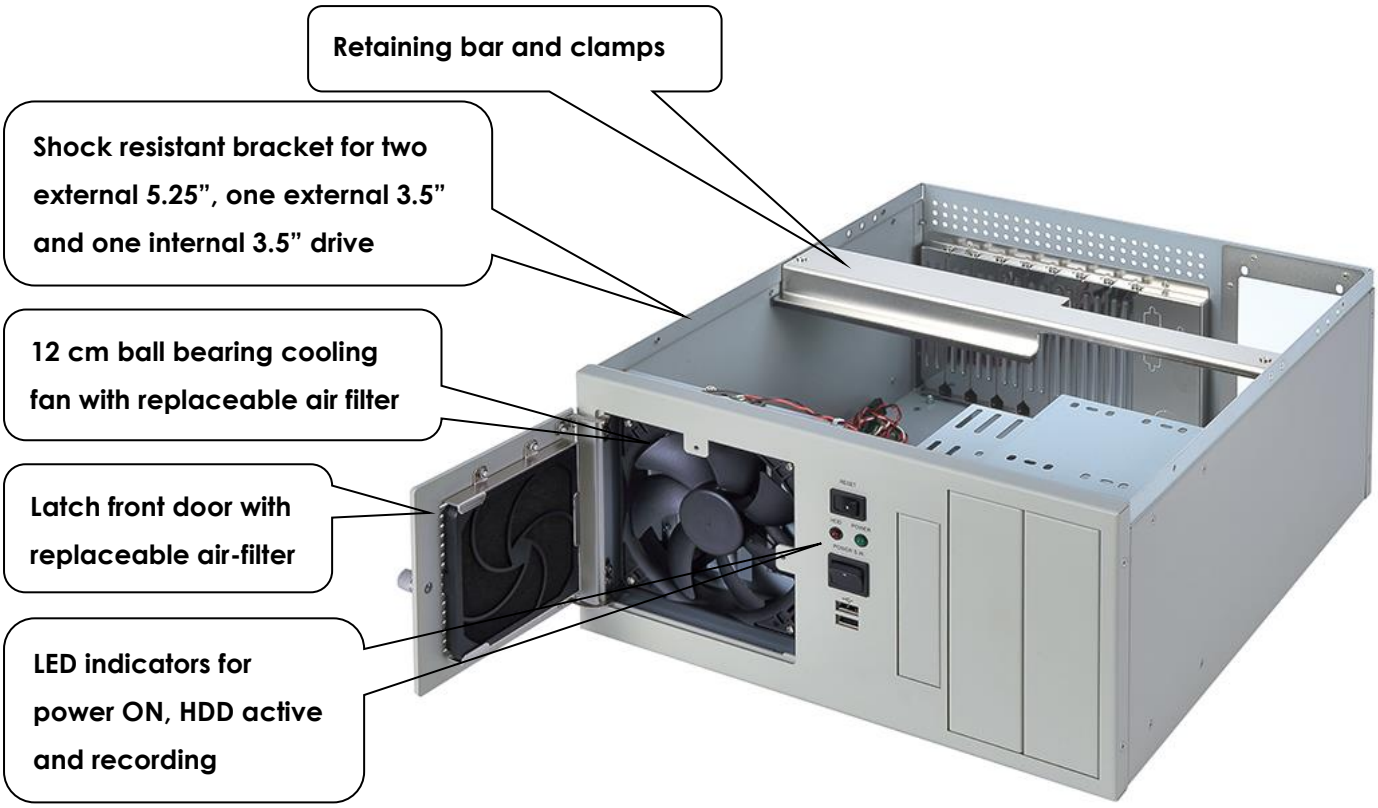
Net/Gross Weight

- 7.7Kgs/9.6Kgs

Ordering Information

WMC-704M-RF	Wallmount chassis with (1) 2.5" and (3) 3.5" Drive Bays for ATX motherboard
WMC-704M-RF-400W	Same as above and with 400W PS/2 ATX Power Supply
WMC-704M-RF-600W	Same as above and with 600W PS/2 ATX Power Supply

WMC-804BA



Introduction

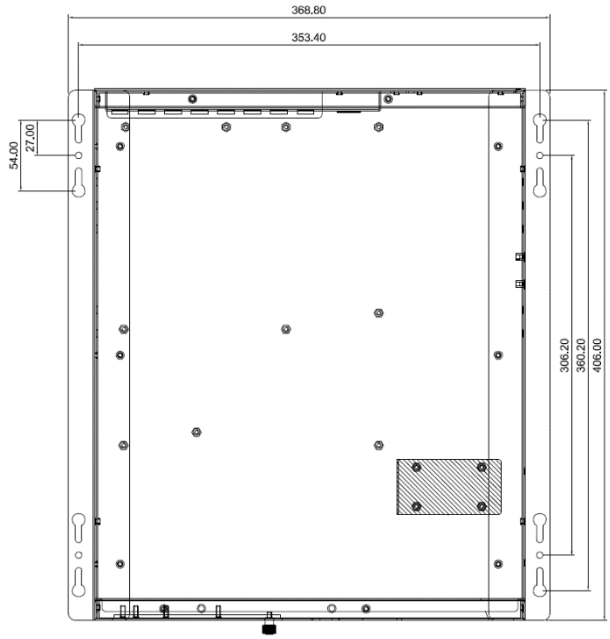
WMC-804BA is a standard 8 slot full-length "shoe-box" wallmount or benchtop industrial chassis. It is designed to support 8 slots backplane especially for industrial automation applications outside your server room where environment is extra harsh and unfriendly. Within its heavy-duty steel construction, it is equipped with two 5.25", one external 3.5" and one internal 3.5" drive bays for basic system requirement. Hold down bar and clamps are provided to ensure stable operations against heavy vibration. 12cm ball bearing fan and replaceable air filter ensure excellent and clean cooling system for heavy-load applications. WMC-804 offers an ideal solution for computers in public area and mobile computers such as car computers or GPS.

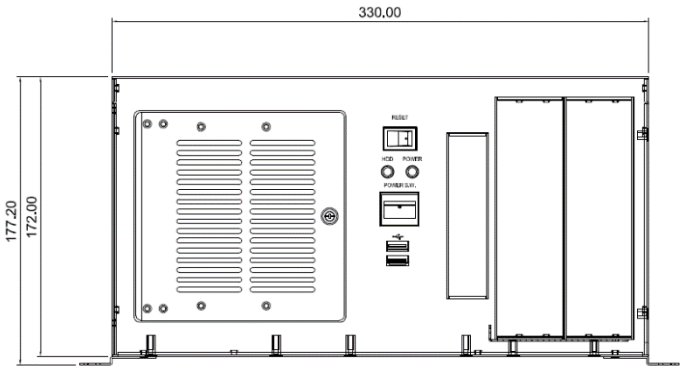
Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally
- Two 5.25" and two 3.5" drive bays (one hidden)
- 12 cm ball bearing fan with replaceable air-filter
- Shock resistant drive bracket.
- Supports PS/2 power supply.

WMC-804BA

Mechanical Drawing





Construction

- Heavy-duty Steel

Color

- Beige

Board Support

- Full or Half-size Single Board Computer

Drive bay

- (2) 5.25" external drive bays
- (1) 3.5" external drive bay
- (1) 3.5" internal drive bay

Expansion

- BP-0804P: (2) PICMG 1.0, (3) ISA and (4) PCI slots
- BPE-0804E: (1) PICMG 1.3, (3) PCI, (3) PCIe x4

Front Port

- (2) USB 2.0 connectors

Switch

- Power On/Off, and Reset

Indicator

- Power On/Off, and HDD activity LEDs

Cooling System

- (1) 12cm ball-bearing fan with replaceable air filter

Power Supply

- PS2 ATX Power supply

Operation Temperature

- 0~55 °C

Dimension

- 330mm (W) x 172mm (H) x 407.4mm (D)

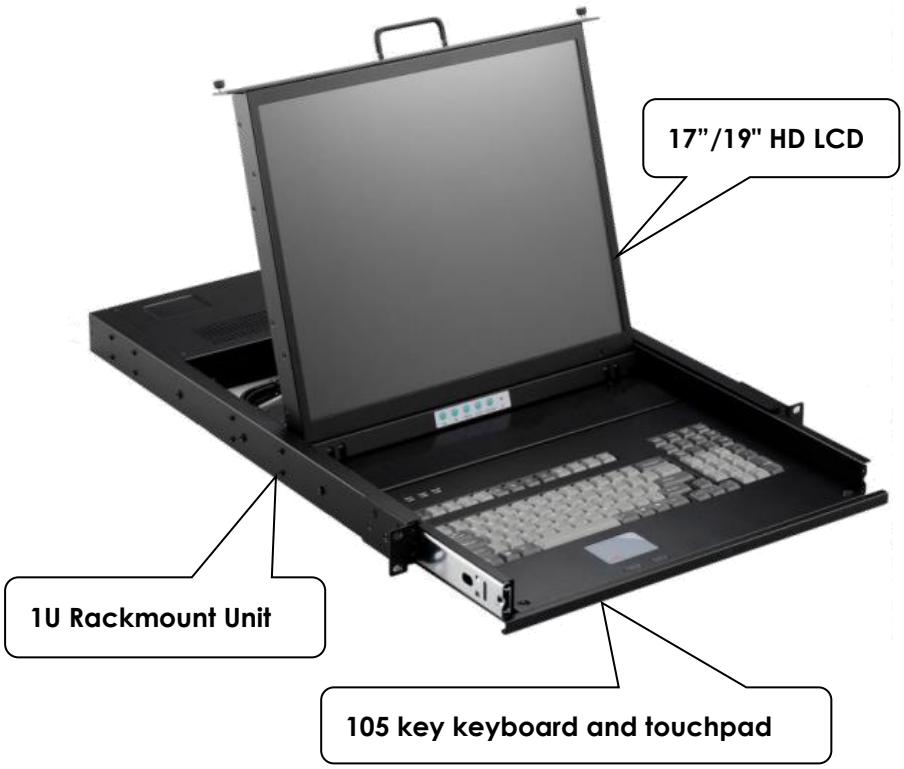
Ordering Information

WMC-804BA-BGE	8-slot Wallmount chassis for SBC, with (2) 5.25" and (2) 3.5" drive bays
WMC-804BA-BGE-0804P	8-slot Wallmount chassis for SBC, with BP-0804P backplane
WMC-804BA-BGE-0804P-400W	WMC-804B-USB-0804P chassis, with 400W PS2 ATX Power supply
WMC-804BA-BGE-0804P-600W	WMC-804B-USB-0804P chassis, with 600W PS2 ATX Power supply
WMC-804BA-BGE-	8-slot Wallmount chassis for

LCD & KVM Products



CYCLOPS-M



Introduction

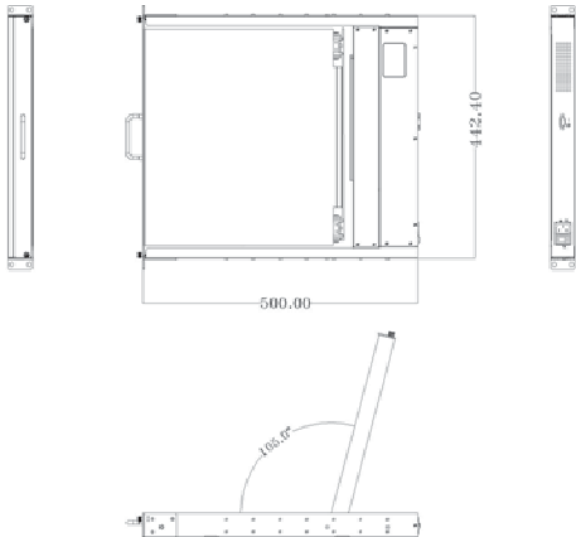
CYCLOPS-M is a series of 19” 1U rackmount KVM unit monitors, assists in efficient management of valuable space. The series provides Full High Definition of 19” LCD monitor. On Screen Display provides you with con¬trol over frequency, resolution, backlight luminance and brightness of the video display. The new additional features of this console includes the easy reachable rail-lock switch to avoid user’s fingers from being clipped when pushing back the console and also new rail design that enables a single person to mount the console into the rack easily.

Features

- 19” 1U KVM switch with 17”/19” HD LCD display and 105-key Keyboard and Touchpad
- Single/8/16 port KVM switch
- OSD menu to control frequency, resolution, backlight luminance and brightness of the video dis¬play
- Rail-Lock Switch for maximum safety

CYCLOPS-M

Mechanical Drawing



Construction

- Heavy Duty steel

Color

- Black

Panel

- 17"/19" TFT LCD with 1280 x 1024 resolution
- 16.7M Colors
- 1000:1 (Typ) Contrast Ratio
- Brightness: 300cd/m2

Keyboard & Mouse

- 105 keys industrial keyboard and touchpad

On Screen Control

- Auto adjustment, brightness, contrast, phases, H-V position, frequency, size, and display mode.
- Automatic and Manual Scan mode

Video Input

- VGA HDDB 15 pin Female type

Drawer Design

- Full extension high load rating slide rail with rail-lock safety switch. Rail design enables single person do the installation

Dimensions

- Single: 17.42 (W) x 21.65 (D) x 1.73 (H) inches
- 8/1 6ports: 17.42 (W) x 23.22 (D) x 1.73 (H) inches

Operating Temperature

- 0~50 °C

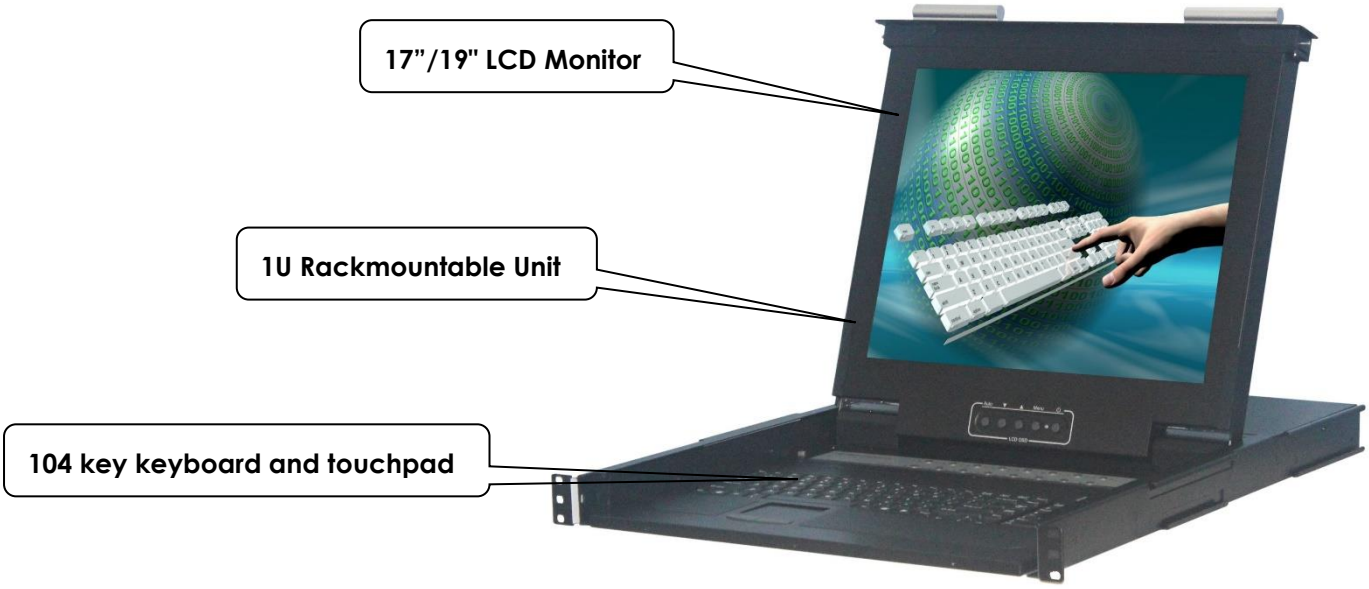
Power Requirement

- 60W, 100~240VAC Auto Switch

Ordering Information

CYCLOPS-M171	Single port KVM console with 17" LCD monitor and USB
CYCLOPS-M191	Single port KVM console with 19" LCD monitor and USB
CYCLOPS-M171P	Single port KVM console with 17" LCD monitor and PS/2
CYCLOPS-M191P	Single port KVM console with 19" LCD monitor and PS/2
CYCLOPS-M178	8 port KVM console with 17" LCD monitor and USB
CYCLOPS-M1716	16 port KVM console with 17" LCD monitor and USB
CYCLOPS-M198	8 port KVM console with 19" LCD monitor and USB
CYCLOPS-M1916	16 port KVM console with 19" LCD monitor and USB

CYCLOPS-CPD Series



Introduction

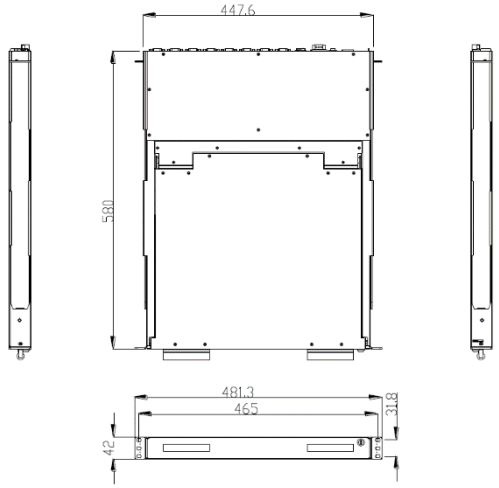
CYCLOPS-CPD is a series of 19” cost efficient 1U rackmountable KVM unit, assists in efficient management of valuable space. The series provides Full High Definition of 19” LCD monitor. On Screen Display provides you with con¬trol over frequency, resolution, backlight luminance and brightness of the video display. The new additional features of this console includes the easy reachable rail-lock switch to avoid user’s fingers from being clipped when pushing back the console and also new rail design that enables a single person to mount the console into the rack easily.

Features

- 19” 1U keyboard and mouse drawer with 17”/19” Full-HD LCD display and 104-key Keyboard and Touchpad
- LED Back Light
- OSD menu to control frequency, resolution, backlight luminance and brightness of the video dis¬play
- Rail-Lock Switch for maximum safety

CYCLOPS-CPD Series

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Panel

- 17”/19” LCD with 250 nit brightness, 16.7 million display colors with maximum resolution 1280 x 1024

Video Input

- DVI-D and VGA

Keyboard & Mouse

- 104-keys industrial Keyboard and Touchpad
- Support language: US, UK, Taiwan, Korean, Russian, Spanish, German, Italian, Turkish, Norway
- USB 2.0 interface

On Screen Control

- Menu, Auto adjustment, brightness, contrast, phase, H-V position, pitch, zoom, color, language and OSD position Automatic and Manual Scan mode display mode. Automatic and Manual Scan mode

Security Lock

- Self-locking and auto release rails for ultra-convenience

USB Hub

- (1) Front , (2) Rear USB 2.0 Type A for peripheral USB devices

Dimensions

- 448 (W) x 580 (D) x 42 (H) mm
  17.6 (W) x 22.8 (D) x 1.7 (H) inches

Operating Temperature

- 0~50 °C

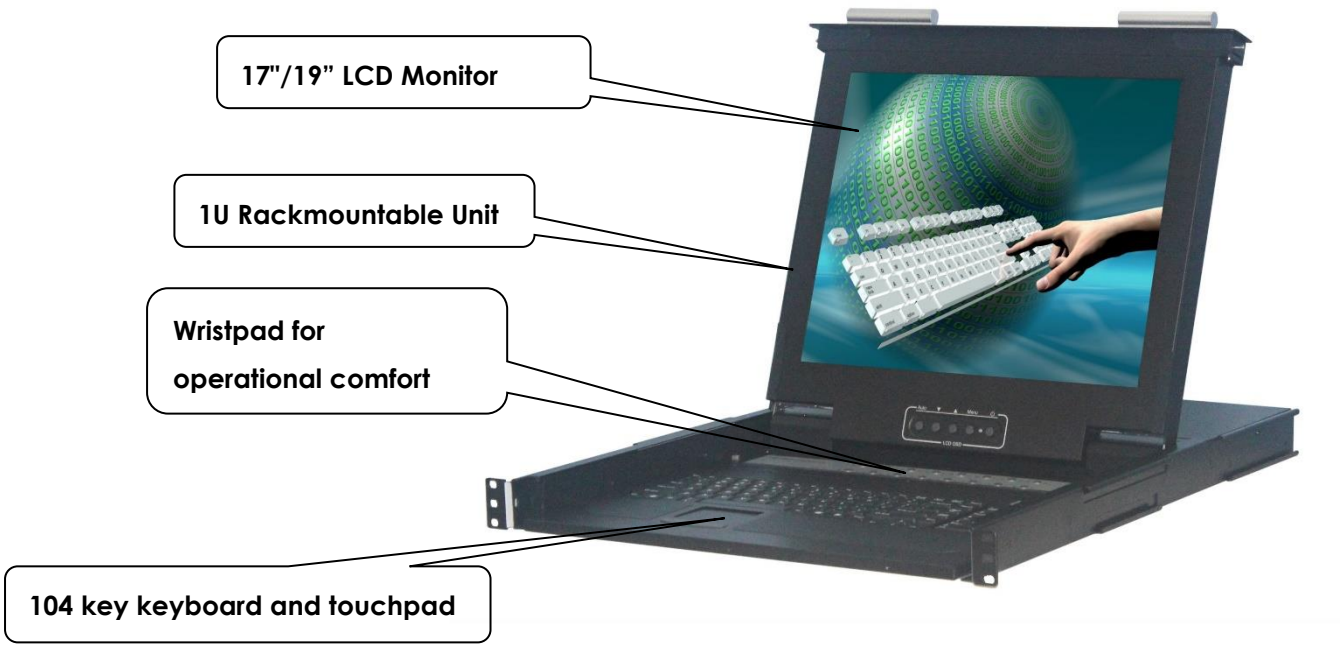
Gross Weight

- 18Kgs

Ordering Information

CYCLOPS-CPD171	Single port KVM console with 17” LCD monitor
CYCLOPS-CPD191	Single port KVM console with 19” LCD monitor

CYCLOPS-C series



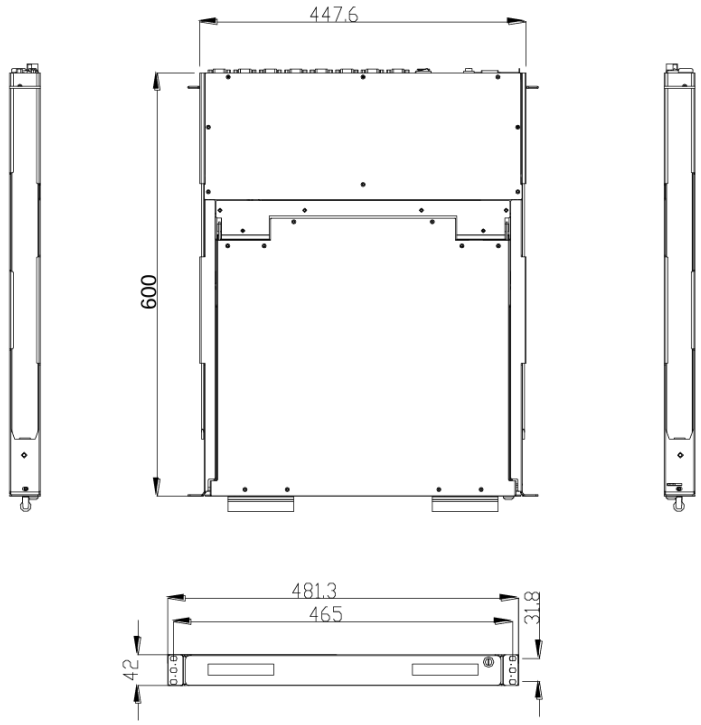
Introduction

CYCLOPS-C is a series of 19" cost efficient 1U rackmountable KVM unit monitors and controls up to 16 computers (expandable to 240 computers), assists in efficient management of valuable space. The series provides Full High Definition of 19" LCD monitor. On Screen Display provides you with con¬trol over frequency, resolution, backlight luminance and brightness of the video display. Password func¬tion enables limited access to all the computers for extra security. The new additional features of this console includes the easy reachable rail-lock switch to avoid user's fingers from being clipped when pushing back the console and also new rail design that enables a single person to mount the console into the rack easily.

Features

- 19" 1U 8/16-port KVM switch with 17"/19" Full-HD LCD display
- Support combo interface with VGA&USB
- Durable 104-key keyboard and touch pad
- Expandable to control up to 240 computers
- Self-locking and auto release rails for ultra-convenience
- Port selection via push buttons or On-Screen-Display (OSD)
- Optional touch screen with USB interface

Mechanical Drawing



Construction
- Heavy Duty Steel

Color
- Black

Panel
- 17"/19" panel: 1280 x 1024 resolution

KVM Switch
- 8/16-port Combo-free VGA & USB or VGA & PS/2
- KB/Mouse Emulation with USB & PS/2
- Port selection via push buttons or On-Screen-Display (OSD)
- Cascading up to 240 systems
- Password function for extra security.

Keyboard & Mouse
- PS/2 104 key industrial keyboard and touch pad

On Screen Control
- Auto adjustment, brightness, contrast, phases, H-V position, frequency, size, and display mode.
- Automatic and Manual Scan mode

Security Lock
- Front access lock for system security

Drawer Design
- Special slider for smooth extraction and wrist pad for trackball version

Dimensions
- 448 (W) x 580 (D) x 43 (H) mm

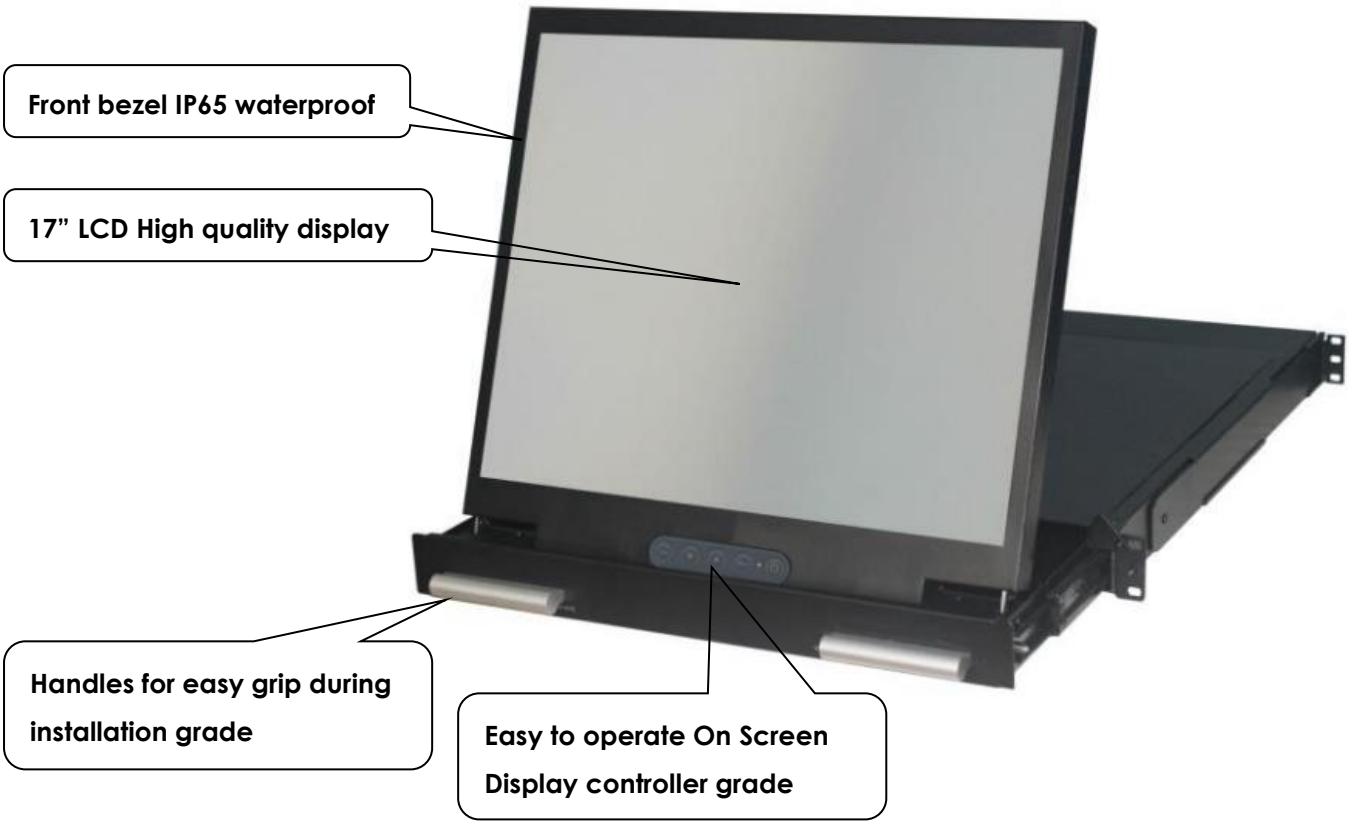
Operating Temperature
- 0~50 °C

Gross Weight
- 18kg

Ordering Information

CYCLOPS-C178	8 port KVM console with 17” LCD monitor, COMBO free for USB & VGA
CYCLOPS-C178T	C178 with touch screen
CYCLOPS-C1716	16 port KVM console with 17” LCD monitor, COMBO free for USB & VGA
CYCLOPS-C1716T	C1716 with touch screen
CYCLOPS-C198	8 port KVM console with 19” LCD monitor, COMBO free for USB & VGA
CYCLOPS-C198T	C198 with touch screen
CYCLOPS-C1916	16 port KVM console with 19” LCD monitor, COMBO free for USB & VGA
CYCLOPS-C1916T	C1916 with touch screen
AAC-CVU018	1.8meter 2-in-1 KVM Cable with USB & VGA

MEDUSA-RMD17-IP



Introduction

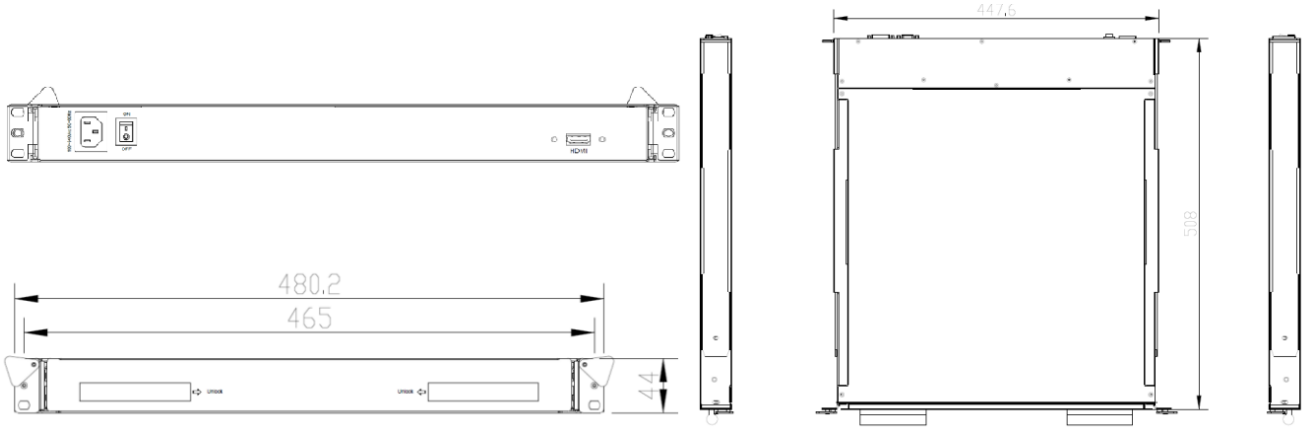
The **MEDUSA-RMD17-IP** is designed to provide users with friendly and clear visual monitoring device that can be easily fitted onto standard 19" rack and takes only 1U space. It supports 17" HD LCD display in an elegantly designed 1U heavy duty steel housing with rail to enable users to select the most comfortable visual distance. The LCD supports wide viewing angle R-L and U-D up to 178 degree. Ultra-excellent display quality is supported by a maximum contrast ratio of 1000:1 and a resolution up to 1280 x 1024 pixels. It also support 1000nits high brightness for option.

Features

- Standard 19" Rackmount 17" bright active matrix LCD Display
- Front bezel IP65 waterproof grade
- High contrast ratio, Wide-viewing angle and high bright¬ness for high display quality
- On Screen Display (OSD) enable easy adjustment of dis¬play image
- Low power consumption
- Robust but light and elegantly designed external housing
- Optional 1000nits high brightness

MEDUSA-RMD17-IP

Mechanical Drawing



Display Size
- 17 inch

Panel Type
- LED Backlight LCD

Maximum Resolution
- 1280 x 1024

Pixel Pitch
- 0.264mm x 0.264mm

View Angle (Typical)
- R-L View 178 degree
- U-D View 170 degree

Contrast Ratio
- 1000:1

Brightness
- 250 nits
- Optional 1000 nits

Colors
- 16.2M

Display Interface
- HDMI

Power Requirement
- 100 ~ 240 VAC
- Standard IEC Type Power Cord with Internal Power adapter

Temperature
- 0 ~ 50 Centigrade

Humidity
- 10% ~ 90% RH

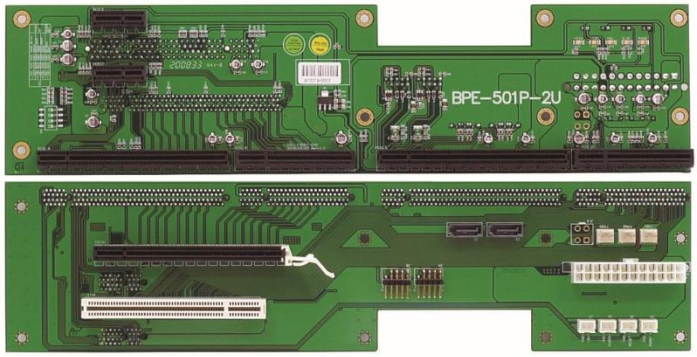
Dimension
- 448 (W) x 44 (D) x 508 (H) mm

Net Weight / Gross Weight
- 15.5 / 19 (KGs)

Ordering Information

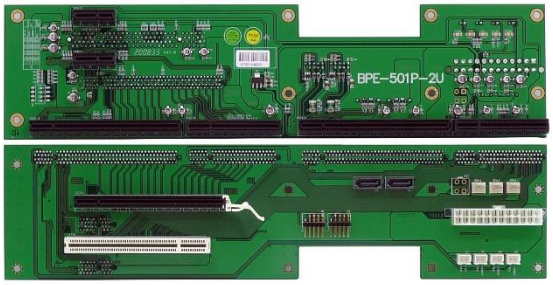
MEDUSA-RMD17-IP	17" Rack Mount Industrial Display Drawer with IP65 waterproof, Black
MEDUSA-RMD17-IP1000	17" Rack Mount Industrial Display Drawer with IP65 waterproof, 1000nits backlight, Black

Backplanes



PICMG 1.3 Backplanes

BPE-501P-2U



Specification

- 5-Slot 2U PICMG 1.3 Backplane
- PICMG ver. 1.3 RC1.0 SHB slot for SHB Express
- PCIe x16 slot
- PCIe x1 slots
- PCI 32 bit 5V slots
- SATA connectors
- Supports ATX 24P power connector
- Connectors for 3-pin fans
- Power LEDs
- Multilayer PCB

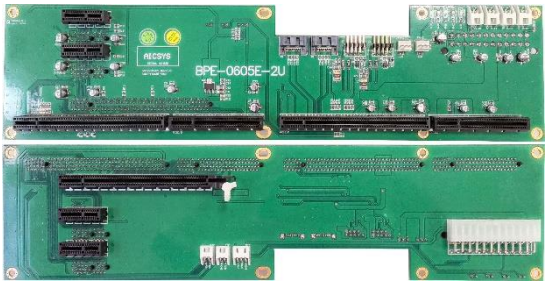
BPE-0502P-2U



Specification

- 5-Slot 2U PICMG 1.3 Backplane
- (1) PCIe x16 slot
- (1) PCIe x4 slot (1X compatible)
- (2) PCI 32 bit 5V slots
- SATA connectors
- USB connectors
- Supports ATX 24P power connector
- Connectors for 3-pin fans
- Power LEDs
- Multilayer PCB

BPE-0605E-2U



Specification

- 6-Slot 2U PICMG 1.3 Backplane
- (1) PICMG ver. 1.3 RC1.0 SHB slot for SHB Express
- (4) PCIe x1 slot
- (2) SATA connectors
- (2) USB connectors
- Supports ATX 24P power connector
- (2) Connectors for 3-pin fans
- Power LEDs
- Multilayer PCB

PICMG 1.3 Backplanes

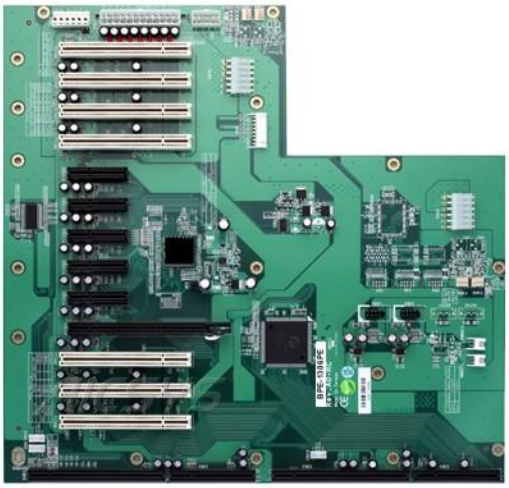
BPE-0603P



Specification

- 6-Slot PICMG 1.3 Backplane
- (1) PICMG ver. 1.3 RC1.0 SHB slot for SHB Express
- (3) PCI slots
- (1) PCIe x4 slot
- (1) PCIe x16 slot
- (2) SATA connectors
- Supports ATX 24P power connector
- (2) Connectors for 3-pin fans
- Power LEDs
- Multilayer PCB

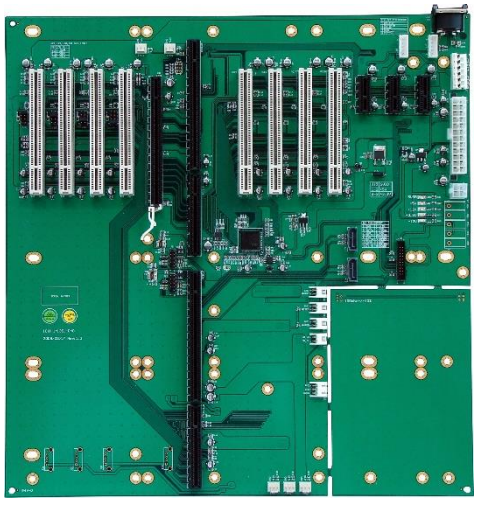
BPE-1306PE



Specification

- 13-Slot Bridged PICMG 1.3 Backplane
- Full-Size PICMG 1.3 CPU Slots
- (1) PCIe x16 Gen 2.0
- (5) PCIe x4
- (7) PCI Slots
- (2) USB 2.0 pin headers
- Power Indicator LEDs
- Multilayer PCB
- ATX Power Connector

BPE-1308A

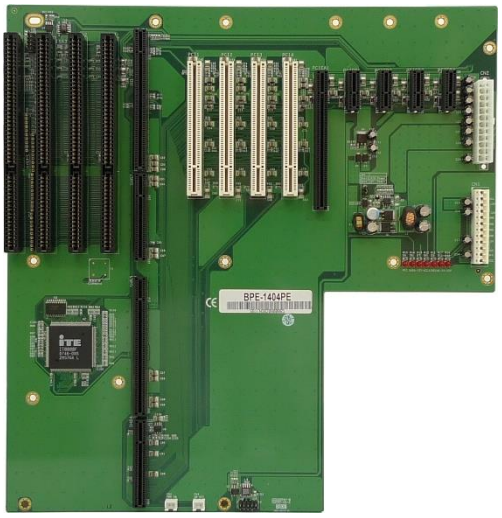


Specification

- 13-Slot PICMG 1.3 Backplane
- (1) PCIe x16 slot
- (3) PCIe x1 slot
- (8) PCI 32 bit 5V slots
- SATA connectors
- USB ports (A type female) or by Pin Header
- Supports ATX 24P power connector
- Connectors for 3-pin fans
- AT keyboard connector
- Power Indicator LEDs
- Multilayer PCB
- ATX Power Connector
- PCI-E 16x slot also supports PCI-E

PICMG 1.3 Backplanes

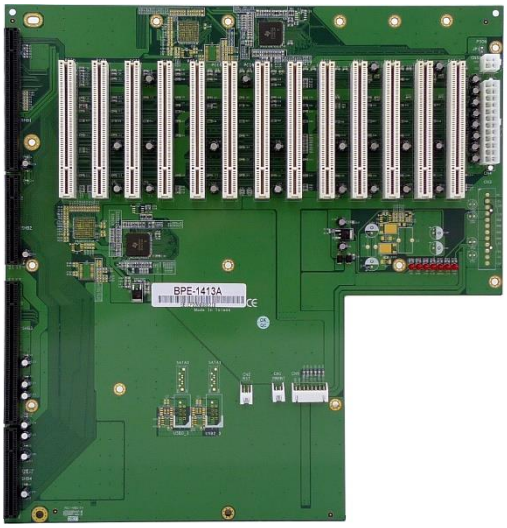
BPE-1404PE



Specification

- 14-Slot Passive PICMG 1.3 Backplane
- Full-Size PICMG 1.3 CPU Slots
- (4) PCI Slots
- (4) ISA Slots
- (1) PCIE 16x
- (4) PCIE 4x Slots
- Power Indicator LEDs
- Multilayer PCB
- AT/ATX Power Connector

BPE-1413A

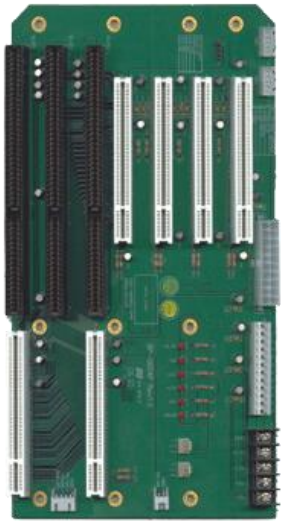


Specification

- 14-Slot Bridged PICMG 1.3 Backplane
- Full-Size PICMG 1.3 CPU Slots
- (13) PCI Slots
- Power Indicator LEDs
- Multilayer PCB
- ATX Power Connector

PICMG 1.0 Passive Backplanes

BP-0604P



Specification

- 6-Slot PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (1) ISA Slot
- (4) PCI Slots (one shared with ISA Slot)
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

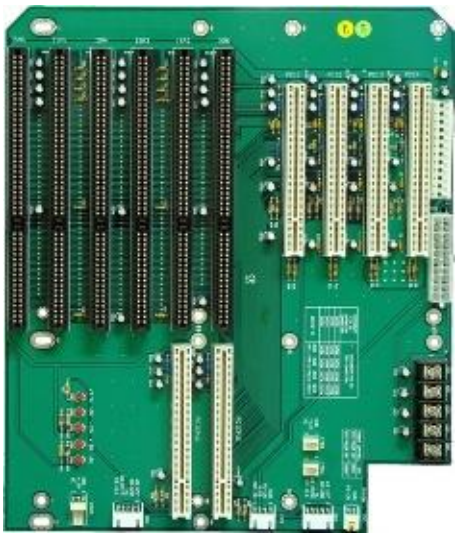
BP-0804P



Specification

- 8-Slot PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (2) ISA Slots
- (4) PCI Slots
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BP-1004P

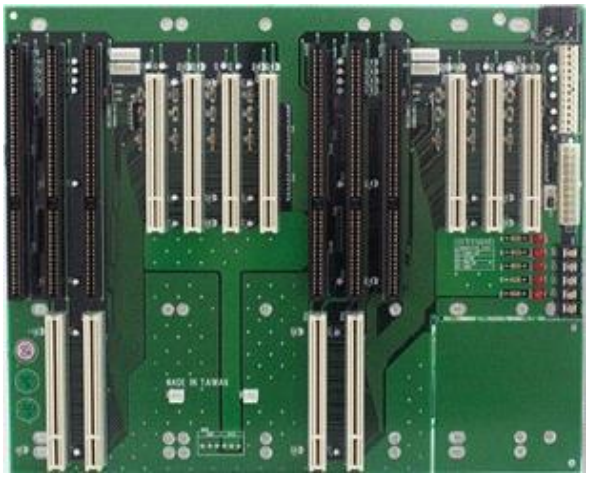


Specification

- 10-Slot PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (4) ISA Slots
- (4) PCI Slots
- PICMG SLOT with 3.3V support
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

PICMG 1.0 Passive Backplanes

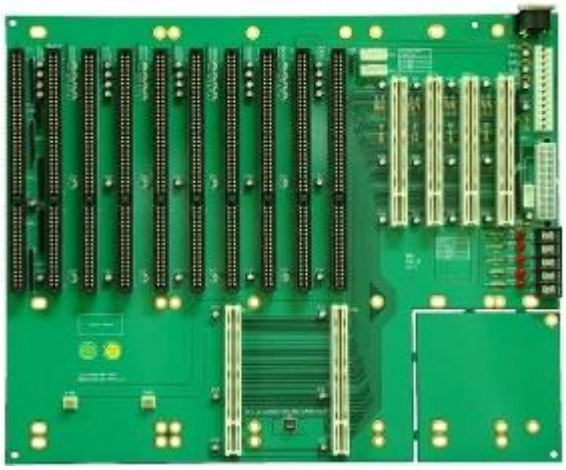
BP-1307PS



Specification

- 13-Slot Segmented PCI Passive Backplane
- (4) Full-Size PICMG CPU Slots,
- (2) ISA Slots
- (7) PCI Slots
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector

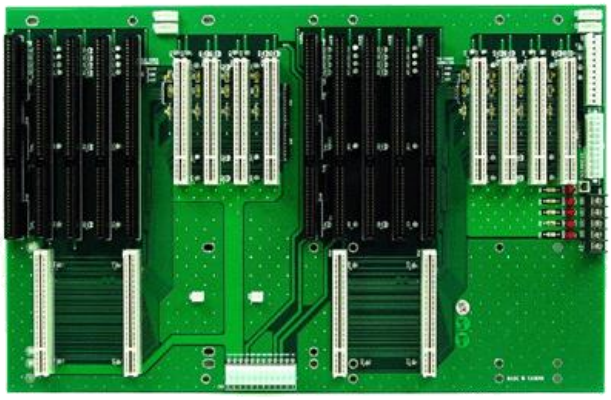
BP-1404P



Specification

- 14-Slot PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots, (8) ISA Slots, and (4) PCI Slots
- PICMG Slot with 3.3V support
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BP-1808PS



Specification

- 18-Slot Segmented PCI Passive Backplane
- (6) ISA slots
- (8) PCI slots
- (4) PICMG support Dual-System
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector

PICMG 1.0 Passive Backplanes

BP-403PA0-1U



Specification

- 1U 3-Slot PCI Passive Backplane
- Full-Size PICMG CPU Slot
- (1) ISA Slot
- (1) PCI Slot
- 3 x Fan Connectors
- 6 x LED Indicators
- Multilayer PCB
- ATX Power Connector
- Only for RCK-103B 1U chassis

BP-0602P-2U



Specification

- 6-Slot 2U PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (2) ISA slots
- (2) PCI Slots
- Multilayer PCB
- ATX Power Connector
- Ideal Choice RCK-203B 2U Chassis

BP-0604P-2U



Specification

- 6-Slot 2U PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (4) PCI Slots
- Multilayer PCB
- ATX and AT Power Connectors
- Ideal Choice RCK-203B 2U Chassis

PICMG 1.0 Bridged Backplanes

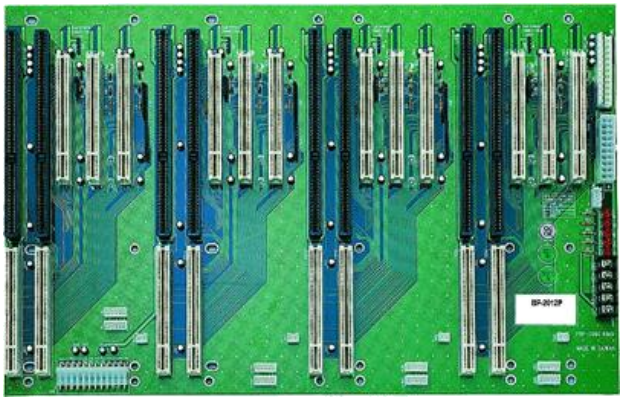
BP-1904P



Specification

- 19-Slot Passive Backplane
- (3) Full-Size PICMG CPU Slots
- (12) ISA Slots
- (4) PCI Slots
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BP-2012PS



Specification

- 20-Slot Segmented PCI Passive Backplane
- (8) Full-Size PICMG CPU Slots
- (12) PCI Slots
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BP-0807A

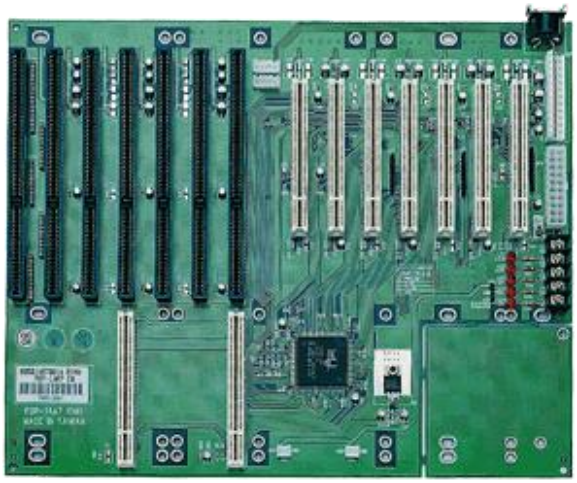


Specification

- 8-Slot Bridged PCI Passive Backplane
- Full-Size PICMG CPU Slot
- (1) ISA Slot
- (7) PCI Slots
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

PICMG 1.0 Bridged Backplanes

BP-1407A



Specification

- 14-Slot Bridged PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (5) ISA Slots
- (7) PCI Slots
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

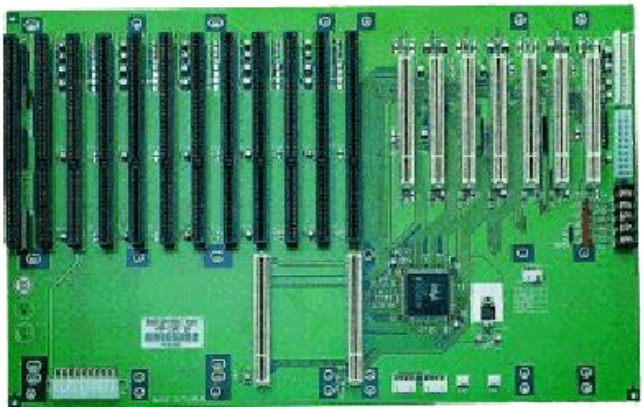
BP-1412A



Specification

- 14-Slot Bridged PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (1) ISA Slot
- (12) PCI Slots (one shared)
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BP-1907A



Specification

- 19-Slot Bridged PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (10) ISA Slots
- (7) PCI Slots
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

1U Power Supply



PSA-1200AXP

AC/DC 200W Power Supply for 1U system with PFC function and ATX output



Features

- Compact size for 1U rackmount chassis
- AC/DC 250W with ATX output
- Input Voltage Range: 110 ~ 240V
- Output Voltage: 5V / 3.3V / 12V /-12V / 5VSB
- Safety Standard: CB, CCC, CE, TUV, UL
- EMI Standards: FCC Class B/ VCCI Class 2

Input

- 110 ~ 240V

Efficiency

- 70% minimum, at full load

Hold Up Time

- 20ms minimum, at full load

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 40mm Ball bearing fan (40x40x20 mm)

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C, 70% full rated load (calculated by MIL217E).

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 90% relative humidity, non-condensing at 40°C.

EMI/RFI

- FCC part 15, Subpart B, Class B computing devices.
- CISPR22 (EN55022) Class B.
- VCCI Class 2

Safety

- CB, CCC, CE, TUV, UL

Dimension

- 81.5 (W) x 150 (D) x 40.6 (H) mm

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V4 -5V	V5 +12V	5VSB
Max Load	30A	20A	12A	0.5A	1A	1.5A
Min Load	3A	0A	1A	0A	0A	0A
Load Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Cross Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%
Noise	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%

Note 1: The output of +5V and +3.3V shall not exceed 150W.

Note 2: The +12V, +5V and +3.3V total output power maximum is 234W.

Note 3: The +12 Volt output of the power supply must be capable of 15 Amps peak for 10 seconds. A +/-5% tolerance is permissible. Output voltage is measured at the load and of the out put cable.

Note 4: Noise bandwidth is from DC to 20 MHz.

Note 5: Regulation tolerance shall include temperature change, warm up drift and dynamic load

Ordering Information

PSA-1200AXP	AC/DC 200W Power Supply For 1U chassis with ATX Output with Active PFC function

PNA-F250AXP

AC/DC 250W Power Supply for 1U system with PFC function and ATX output



Features

- Compact size for 1U rackmount or mini-itx chassis
- AC/DC 250W with ATX output
- Input Voltage Range: 100V~264V
- Output Voltage: 5V / 3.3V / 12V /-12V / 5VSB
- Safety Standard: CB, CE, TUV, C-UL

Input

- 100V ~ 264V

Efficiency

- 80% minimum, at full load

Hold Up Time

- 12ms minimum, at full load

Remote On/Off

- PSON compatible signal

Power Good

- open collector +5DC, TTL compatible
- Logic Level High: between 2.4VDC and +5V output while sourcing 200 uA

Cooling

- 40mm Ball bearing fan (40x40x20 mm)

Output Protection

- Short circuit, overload & over voltage power

MTBF

- Over 100,000 hours at 75% Load and 25°C ambient conditions and 115V~ or 230V~ input

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 85%

EMI/RFI

- Comply to CE EN50081-1(1992) ,EN55024(1998)&FCC (B)
- Comply to EN55024(1998)

Safety

- IEC950 (EN60950) standards: TUV, CB, C-UL

Dimension

- 81.5 (W) x 150 (D) x 40.5 (H) (mm)

Output Table

Output Voltage	+5V	+3.3V	V1 +12V	V2 +12V	-12V	5VSB
Max Load Min Load	17A 0.5A	14A 0A	8A 1A	14A 1A	0.8A 0A	2.0A 0A
Peak Load			10A	16A		2.5A
Regulation	+/-5%	+/-5%	+/-5%	+/-5%	+/-10%	+/-5%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV	50 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV	50 mV

1. Maximum continuous total DC output power should not exceed 250 W

2. Maximum continuous combined load on +3.3 VDC and +5 VDC outputs should not exceed 110 W.

3. Maximum continuous combined load on +12 V1DC and +12V2DC outputs should not exceed 216 W/18A.

4. Maximum peak total DC output power should be approximate 275 W.

5. Peak power and current loading should be supported for a minimum of 1 second

Ordering Information

PNA-F250AXP	AC/DC 250W Power Supply For 1U chassis with ATX Output with

PA-1250AXP

AC/DC 250W Power Supply For 1U with PFC function and ATX Output



Features

- Active PFC Function
- Compact size for 1U rackmount chassis
- AC/DC 250W with ATX output
- Input Voltage Range: 115 ~ 240V
- Output Voltage: 5V/3.3V/12V/-5V/-12V/5VSB
- Safety Standard: CE/FCC/UL/CB
- EMI Standards: FCC Class B/ VCCI Class 2

Input

- 115 ~ 240V

Efficiency

- 70% minimum, at full load

Hold Up Time

- 20ms minimum, at full load

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 40mm Ball bearing fan (40x40x20 mm)

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C, 70% full rated load (calculated by MIL217E).

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 90% relative humidity, non-condensing at 40°C.

EMI/RFI

- FCC part 15, Subpart B, Class B computing devices.
- CISPR22 (EN55022) Class B.
- VCCI Class 2

Safety

- CE, FCC, UL, CB

Dimension

- 100 (W) x 190 (D) x 40.5 (H) (mm)

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V4 -5V	V5 +12V	5VSB
Max Load	25A	15A	10A	0.5A	0.5A	2A
Min Load	3A	0A	1A	0A	0A	0A
Load Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Cross Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%
Noise	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%

Note 1: The output of +5V and +3.3V shall not exceed 150W.

Note 2: The +12V, +5V and +3.3V total output power maximum is 234W.

Note 3: The +12 Volt output of the power supply must be capable of 15 Amps peak for 10 seconds. A +/-5% tolerance is permissible. Output voltage is measured at the load and of the out put cable.

Note 4: Noise bandwidth is from DC to 20 MHz.

Note 5: Regulation tolerance shall include temperature change, warm up drift and dynamic load.

Ordering Information

PA-1250AXP	AC/DC 250W Power Supply For 1U chassis with ATX Output and Active PFC Function

PA-1300AXP

AC/DC 300W Switching Power Supply with PFC Function and ATX Output



Features

- Active PFC Function
- Compact size for 1U rackmount chassis
- AC/DC 300W with ATX output
- Input Voltage Range: 115 ~ 240V
- Output Voltage: 5V/3.3V/12V/-5V/-12V/5VSB
- Safety Standard: CE/FCC
- EMI Standards: FCC Class B/ VCCI Class 2

Input

- 115 ~ 240V

Efficiency

- 70% minimum, at full load

Hold Up Time

- 20ms minimum, at full load

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 40mm Ball bearing fan (40x40x20 mm)

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C, 70% full rated load (calculated by MIL217E).

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 90% relative humidity, non-condensing at 40°C.

EMI/RFI

- FCC part 15, Subpart B, Class B computing devices.
- CISPR22 (EN55022) Class B.

Safety

- CE, FCC

Dimension

- 100 (W) x 215 (D) x 40.5 (H) (mm)

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V4 -5V	V5 +12V	5VSB
Max Load	30A	20A	12A	0.5A	1A	1.5A
Min Load	3A	0A	1A	0A	0A	0A
Load Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Cross Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%
Noise	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%

Note 1: The output of +5V and +3.3V shall not exceed 150W.

Note 2: The +12V, +5V and +3.3V total output power maximum is 278W.

Note 3: The +12 Volt output of the power supply must be capable of 16 Amps peak for 10 seconds. A +/-5% tolerance is permissible. Output voltage is measured at the load and of the out put cable.

Note 4: Noise bandwidth is from DC to 20 MHz.

Note 5: Regulation tolerance shall include temperature change, warm up drift and dynamic load

Ordering Information

PA-1300AXP	AC/DC 300W Power Supply For 1U chassis with ATX Output with Active PFC function

PI-1460P

460W 1U AC/DC Power Supply with high efficiency, active PFC function and ATX output



Features

- High efficiency ≥86%
- Compact size for 1U Rackmount or Mini-ITX chassis
- 460W AC/DC with ATX output
- Input Voltage Range: 100V~240V, ±10%
- Output Voltage: 5V / 3.3V / 12V /-12V / 5VSB
- Safety Standard: UL cUL, TUV

Input

- 100V ~ 240V, ±10%

Efficiency

- ≥86% at 115VAC, at full load

Hold Up Time

- 16ms minimum, at max load & normal input

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 40x40mm DC fan

Output Protection

- Short circuit, Overload & Over voltage power

MTBF

- Over 100,000 hours at 75% Loading and 25°C ambient temperature

Environment

- Operating Temperature: 0 to 45 °C.
- Humidity: 5% ~ 90% non condensing

EMI/RFI

- FCC Class A, CISPR22 Class A
- Comply to EN61000-3-2

Safety

- UL, cUL, TUV

Dimension

- 100(W) x 200(D) x 40.5(H) (mm)

Output Table

Output Voltage	+5V	+3.3V	+12V	-12V	+5VSB
Output Current (max)	25A	25A	34A	0.8A	3.5A
Output Current (min)	0.5A	0.5A	2A	0A	0.1A
Ripple/Noise Max	60mV	60mV	120mV	120mV	60mV
Line Regulation	±1%	±1%	±1%	±1%	±1%
Load Regulation	±5%	±5%	±5%	±5%	±5%

1. Noise Test – Noise bandwidth is from DC to 20MHz.
2. Ripple frequencies greater than 1MHz shall be attenuated by the measurement System.
3. Add 0.1uF/10uF capacitor at output connector terminals for ripple and noise measurement.
4. The combined total power from 5V & 3.3V shall not exceed 160W.
5. Ripple/Noise max measured peak to peak.

Ordering Information

PI-1460P	460W AC/DC PSU for 1U chassis with active PFC function and ATX output
PI-1400P	400W AC/DC PSU for 1U chassis with active PFC function and ATX output*
PI-1520P	520W AC/DC PSU for 1U chassis with active PFC function and ATX output*

* Separate datasheets available for 400W and 520W output PSU

Mini Redundant Power Supply



SS-400R8P

AC/DC 400W Hot Swap Redundant Power Supply with PFC Function and ATX Output



Features

- Short circuit, Overload, Over voltage protection
- LED indicator for Power System Fault Signal
- Safety standard to meet: UL/TUV/CE / CCC/CB
- EMI Standard: FCC Part 15, Subpart B, Class B / CISPR 22 (EN 55022) Class B

Input

- 100-240Vac 47~63 Hz

Efficiency

- ≧ 73% at full load

Hold Up Time

- 16msec (minimum)

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 40 x 40 x 10 mm fan (magnetic floating bearing)

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 5% ~ 90% relative humidity & non-condensing

EMI/RFI

- FCC Part 15 .Class B.
- CISPR 22 (EN 55022) Class B

Safety

- TUV, CUL, UL, CCC, CE

Dimension

- 150 (W) x 200 (D) x 86 (H) mm

Output Table

Output Voltage	+5V	+3.3V	+12V	-12V	+5Vsb
Max Load Min Load	25A 3A	25A 0.3A	28A 2A	0.8A 0.1A	2A 0.1A
DC Max Power	300W				
Load Regulation	+/-5%	+/-5%	+/-5%	+/-10%	+/-5 %
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	50 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	50 mV

Note 1: The combined total power +5V and +3.3V shall not exceed 150 W. 2. Add 0.1uF/10uF capacitors at output terminals for ripple and noise measurements.

Ordering Information

SS-400R8P	AC/DC 400W ATX Hot Swap Redundant Power Supply

R4B-500G1V2

AC/DC 500W Hot Swap Redundant Power Supply with PFC Function and ATX Output



Features

- Short circuit, Overload, Over voltage protection
- LED indicator for Power System Fault Signal
- Safety standard to meet: UL/TUV/CCC/IEC
- EMI Standard: FCC Part 15, Subpart B, Class A / CISPR 22 (EN 55022) Class B

Input

- 100-240Vac 47~63 Hz

Efficiency

- Minimum 80% at full load and 115V/60Hz input

Hold Up Time

- 16ms minimum

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible signal

Cooling

- 40 x 40 x 10 mm fan (magnetic floating

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 0% ~ 95% relative humidity & non-condensing

EMI/RFI

- FCC Part 15, Subpart B, Class A
- CISPR 22 (EN 55022) Class B

Safety

- TUV, CUL, UL, CCC

Dimension

- 150 (W) x 200 (D) x 86 (H) mm

Output Table

Output Voltage	+5V	+3.3V	+12V	-12V	+5Vsb
Max Load	25A	25A	41A	0.8A	3.5A
Min Load	1A	1A	1A	0A	0.5A
Load Regulation	+/-5%	+/-5%	+/-5%	+/-10%	+/-5 %
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	50 mV
Noise Reg. mV	60 mV	60 mV	120 mV	120 mV	50 mV

Note 1: The combined total power +5V and +3.3V shall not exceed 170 W. 2. Add 0.1uF/10uF capacitors at output terminals for ripple and noise measurement.

Ordering Information

R4B-500G1V2	AC/DC 500W ATX Hot Swap Redundant Power Supply

M1W4-6D50P

AC/DC 1350W Hot Swap 3+1 Redundant Power Supply with PFC Function and ATX Output



Features

- Short circuit, overload, over voltage protection
- Power System Fault Signal and Audible Alarm
- Input Voltage 100~240V AC Full Range
- Safety Standard to meet: UL/TUV/CSA
- EMI standards: FCC Class A / CISPR22 Class A

Input

- 100~240V (Auto-sensing)

Efficiency

- 65% minimum, at 115V full load

Hold Up Time

- 16ms minimum in regular limitation at 90VAC

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 40mm Ball bearing fan (40 x 40 x10 mm)

Output Protection

- Short circuit, overload & over voltage power protection. Power Fault Warning with front panel status LED and audible alarm

MTBF

- 233,535 hours at 25°C

Environment

- Operating Temperature: 0 to 40 °C.
- Operating Humidity: 10% ~ 90% relative humidity & non-condensing

EMI/RFI

- FCC Class A
- CISPR22 (EN55022) Class A

Safety

- UL, TUV, CSA

Dimension

- 426 (W) x 340 (D) x 42 (H) mm

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V4 -5V	V5 -12V	5VSB
Max Load Min Load	84.5A 6A	67.5A 3.5A	90A 6A	1.2A 0.2A	1.2A 0.2A	3.5A 0.4A
Regulation	+/-5%	+/-5%	+/-6%	+5/ -10%	+5/ -10%	+5/-6 %
Ripple(mV)	70	70	120	120	120	70

Note 1: Power module total current of +5V and +3.3V can not exceed 40A

Note 2: Power module total output can not exceed 500W

Note 3: Total power output 3+1=1350W

Ordering Information

M1W4-6D50P	AC/DC 1350W ATX Hot Swap 3+1 Redundant Power Supply

R1T2-5120V0H

AC/DC 120W 1U Redundant Power Supply with Active PFC and ATX Output



Features

- Short circuit, Overload, Over voltage protection
- LEC indicator for Power System Fault Signal
- Safety standard to meet: UL/TUV/CCC/CUL
- EMI Standard: FCC Part 15 Class B / CISPR 22 (EN 55022) Class B

Input

- 90~127Vac (115V), 180-240Vac (220V) 47~63

Efficiency

- 86% (Each power unit)

Hold Up Time

- 16ms minimum

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible signal

Cooling

- 40 x 40 x 10 mm active fan

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 273,688 hours at 25°C

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 80% relative humidity & non-condensing

EMI/RFI

- FCC Part 15, Subpart B, Class A
- CISPR 22 (EN 55022) Class B

Safety

- TUV, CUL, UL, CCC

Dimension

- 215 (W) x 106 (D) x 41.5 (H) mm

Output Table

Output Voltage	+5V	+3.3V	V1 +12V	-12V	+5VSB
Max Load Min Load	10A 0A	10A 0A	10A 2A	0.3A 0A	3A 0.1A
Max Power	80W 120W				
Load Regulation	+/-5%	+/-5%	+/-5%	+/-5%	+/-5 %
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	50 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	50 mV

Note 1: Maximum continuous total DC output power should not exceed 120 W. 2. Maximum continuous combined load on +12 VDC 10A.

Ordering Information

R1T2-5120VOHP	AC/DC 120W ATX 1U Redundant PSU

PS/2 Power Supply



PNA-400AXP

AC/DC 400W PS/2 Type Power Supply with PFC Function and ATX Output



Features

- 400W Active PFC, Meet Intel ATX 12V v2.3
- High efficiency and reliability
- Low ripple and noise
- Compiles with EN61204-3:2000, & FCC Part 15 & Part 2 (CISPR 22 CLASS B)

Input

- 90~264Vac, 47~63 Hz

Efficiency

- 82% ~ 85%
- 80 PLUS Bronze Compliant

Hold Up Time

- 10msec (minimum)

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 80 x 80 x 25 mm active fan, 34 CFM, <35dB

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 80% relative humidity

EMI/RFI

- FCC Part 15 & Part 2 (CISPR 22 CLASS B)
- EN61204-3:2000
- GB4943-2001

Safety

- TUV, CUL, CB

Dimension

- 150 (W) x 140 (D) x 86 (H) mm

Output Table

Output Voltage	+5V	+3.3V	V1 +12V	V2 +12V	-12V
Max Load Min Load	20A 0.3A	20A 0.5A	17A 1A	17A 1A	0.8A 0A
Max Power	130W 27A/ 324W				
Peak Load			20A	20A	
Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-2%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV

Note 1: Maximum continuous total DC output power should not exceed 400 W. 2. Maximum continuous combined load on +3.3 VDC and +5 VDC outputs should not exceed 130 W. 3. Maximum continuous combined load on +12V1DC&+12V2DC outputs should not exceed 30A/360W. 4. Maximum peak total DC output power should not exceed 440 W. 5. Peak power and current loading should be supported for a minimum of 1 second

Ordering Information

PNA-400AXP	AC/DC 400W ATX PS/2 Type PSU

PNA-600AXP

AC/DC 600W PS/2 Type Power Supply with PFC Function and ATX Output



Features

- 600W Active PFC, Meet Intel ATX 12V v2.3
- High efficiency and reliability
- Low ripple and noise
- Compiles with EN61204-3:2000, & FCC Part 15 & Part 2 (CISPR 22 CLASS B)

Input

- 90~264Vac, 47~63 Hz

Efficiency

- 82% ~ 85%
- 80 PLUS Bronze Compliant

Hold Up Time

- 10msec (minimum)

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 80 x 80 x 25 mm active fan, 41.5 CFM, <38.2dB

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 80% relative humidity

EMI/RFI

- FCC Part 15 & Part 2 (CISPR 22 CLASS B)
- EN61204-3:2000,
- GB9254-1998, GB17625.1-2003 standards, C-TICK

Safety

- TUV, CUL, CB, CCC

Dimension

- 150 (W) x 140 (D) x 86 (H) mm

Output Table

Output Voltage	+5V	+3.3V	V1 +12V	V2 +12V	-12V	5VSB
Max Load	24A	24A	24A	24A	0.8A	2.5A
Min Load	0.2A	0.1A	0.1A	0.5A	0A	0A
Max Power	130W					
	46A/ 552W					
Peak Load			27A	27A		3.0A
Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-2%	+/-1%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV	50 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV	50 mV

Note 1: Maximum continuous total DC output power should not exceed 600 W. 2. Maximum continuous combined load on +3.3 VDC and +5 VDC outputs should not exceed 130 W. 3. Maximum continuous combined load on +12V1DC&+12V2DC outputs should not exceed 46A/552W. 4. Maximum peak total DC output power should not exceed 660 W. 5. Peak power and current loading should be supported for a minimum of 1 second

Ordering Information

PNA-600AXP	AC/DC 600W ATX PS/2 Type PSU

PNA-M300AXP

Micro-ATX AC/DC 300W Switching Power Supply with ATX Output



Features

- Micro-ATX AC/DC 300W Switching Power Supply
- Active PFC Function, PFC>0.95 full load.
- Smart Silent Fan Control, Noise< 35dBA
- Double Ball Bearing Fan, CFM>30
- Input Voltage Range: 110~240VAC Full Range
- Reset After Shut Down within 20ms

Input

- 115V ~ 230V, maximum 264V

Efficiency

- 81.3% @60W; 83.8% @149W; 80.8% @296W output
- 80 PLUS Compliant

Hold Up Time

- 16ms min. at 80% of full load, at 230AC input

Remote On/Off

- PSON compatible signal

Power Good

- Turn-on delay 100 ~ 500ms

Cooling

- 80 x 80 x 25 mm active fan

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C, 75% load in 115V ~ 230V

Environment

- Operating Humidity: 20% ~ 85% relative humidity

EMI/RFI

- CE EN50081-1, EN55024 & FCC (B) regulation, C Tick
- EN55024
- EN61000-3-2
- BSMI Class B

Safety

- IEC950 (EN60950); TUV, CB, C-UL, S

Dimension

- 100 (W) x 125 (D) x 76.8 (H) mm

Output Table

Output Voltage	+5V	+3.3V	V1 +12V	V2 +12V	-12V	5VSB
Max Load	20A	20A	8A	14.5A	0.8A	2A
Min Load	0.3A	0.5A	1A	1A	0A	0A
Max Power	125W		270W			
Peak Load			10A			2.5A
Regulation	+/-5%	+/-5%	+/-5%	+/-5%	+/-10%	+/-5%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	150 mV	50 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	150 mV	50 mV

Note 1: Maximum continuous total DC output power should not exceed 300W. 2. Maximum continuous combined load on +3.3 VDC and +5 VDC outputs should not exceed 125W. 3. Maximum continuous combined load on +12V1DC&+12V2DC outputs should not exceed 270W. 4. Maximum peak total DC output power should not exceed 330W. 5. Peak power and current loading should be supported for a minimum of 1 second

Ordering Information

PNA-	AC/DC 300W ATX PSU

PFA-M400AXP

400W MicroATX Power Supply with active PFC and ATX output



Features

- 400W MicroATX AC/DC PSU with ATX output
- Short circuit, Over-Voltage and Over-Current protection
- Safety standard to meet: CB/UL/TUV
- EMI Standard: FCC Part 15, Subpart B, Class B / EN55022, AS/NZS

Input

- 90~135Vac(115V), 180-265Vac(230V), 47~63 Hz

Efficiency

- 85%
- 80 PLUS Bronze Certified

Hold Up Time

- 24msec (minimum)

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 80mm sleeve-bearing fan with Thermal sensor

Output Protection

- Short circuit, Over-Voltage and Over-Current protection

MTBF

- >100,000 hours at ambient temperature 25°C

Environment

- Operating Temperature: 10 to 50 °C.
- Operating/Storage Humidity: 5%~95%RH relative humidity & non-condensing

EMI/RFI

- FCC Part 15, Subpart B, Class B. CISPR 22: 1997, Class B
- EN55022: 2006+AI: 2007, Class B.

Safety

- CB: IEC 60950~1:2005 (2nd edition) / EN 60950~1
- UL 60951-1 , 2nd Edition, 2007-03-27
- TUV: EN 60950-1:2006+All

Dimension

- 125 (W) x 100 (D) x 63.5 (H) mm

Output Table

Output	+5V	+3.3V	+12V1	+12V2	-12V	+5VSB
Min Load	0.2A	0.1A	0.1A	0.5A	0A	0A
Normal Load	11A	10.5A	9A	9A	0.25A	1.25A
Max Load	22A	21A	17A	16A	0.5A	2.5A
Peak Load				19A		3.5A
Line Reg.	±1%	±1%	±1%	±1%	±1%	±1%
Load Reg.	±5%	±5%	±5%	±5%	±10%	±5%
Ripple&Noise	70mV	70mV	140mV	140mV	140mV	70mV

1. +3.3V & 5V total output not exceed 120W
2. Total output continuous shall not exceed 400W
3. +12V2 Peak current is 19A (less than 10ms), minimum voltage during peak is >10.8Vdc
4. 5Vsb Peak current is 3.5A (less than 500ms), minimum voltage during

Ordering Information

FPA-M400AXP	400W MicroATX PSU with active PFC and

PGA-300AX-D24

Micro-ATX DC 300W Switching Power Supply with ATX Output



Features

- 300W DC/DC PS2 ATX power supply with P4 connector
- Input Voltage Range: +19VDC ~ 32VDC
- Suitable for vehicle application
- Fully isolated primary and secondary ground.
- MTBF>116,000hr. MIL-217F at 40°C full load

Input

- +19VDC ~ 32VDC

Efficiency

- 65% ~ 76.82%

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 80mm Fan

Output Protection

- Short circuit, overload & over voltage power

MTBF

- MTBF>116,000hr. MIL-217F at 40°C full load

Environment

- Operating Temperature: -20°C~70°C(derating from 30°C)
- Operating Humidity: 5% ~ 95%RH, non-condensing

EMI/RFI

- FCC part 15, Subpart B, Class B computing devices
- CISPR22 (EN55022) Class B

Safety

- UL60950-1 and EN60950-1 approved
- TUV, EN 60950-1

Dimension

- 150 (W) x 140 (D) x 86 (H) (mm)

Output Table

Output Voltage	+5V	+3.3V	+12V	-12V	-5V	5VSB
Max Load	30A	15A	15A	2A	2A	1.2A
Min Load	2A	0A	0.1A	0A	0A	0A
Max Power	150W					
Peak Load						
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple Reg. mV	50 mV	50 mV	100 mV	100 mV	50 mV	100 mV
Noise Reg. mV	50 mV	50 mV	100 mV	100 mV	50 mV	100 mV

Note 1: The maximum total combined output power on the +3.3V and +5V rail is 150W.

Note 2: The total DC continuous power shall be kept within 300W ambient temperature of 30°C below, and input voltage at +24V ~ +32V. When input voltage is +19V ~ +23V the total DC continuous power shall be kept within 250W.

Ordering Information

PGA-	DC 24V 300W ATX PS/2 Type
300AX-	Power Supply

Open Frame Power Supply



PGA-U080AX

AC/DC 80W Open Frame Power Supply



Features

- Compact size with ATX output
- Supports 60W convection cooling
- Input Voltage Range: 90 ~ 264V
- Output Voltage: 5V / 3.3V / 12V /-12V / 5VSB
- Safety Standard: UL, CB, TUV
- EMI Standards: FCC Class B/ CISPR22 Class B

Input

- 90 ~264V

Efficiency

- 70% minimum at full load, 115Vac input

Hold Up Time

- 20ms minimum at full load, 230Vac input

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 80W with 8.6CFM air-cooling, 60W for convection cooling

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 130K hours at 25°C, 70% full rated load (calculated by MIL217F).

Environment

- Operating Temperature: 10°C to 50°C at full loading
- Operating Humidity: 5% ~ 95%RH, non-condensing

EMI/RFI

- FCC part 15, Subpart B, Class B computing devices
- CISPR22 (EN55022) Class B

Safety

- UL, UL 60950, 3rd edition
- CB, IEC 60950-1, TUV, EN 60950-1: 2001

Dimension

- 81 (W) x 128 (D) x 40 (H) (mm)

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V5 -12V	5VSB
Max Load	8A	6A	3A	0.5A	0.75A
Min Load	0.5A	0A	0A	0A	0A
Load Regulation	+/-2%	+/-4%	+/-4%	+/-5%	+/-4 %
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	50 mV	50 mV	120 mV	120 mV	120 mV
Noise	50 mV	50 mV	120 mV	120 mV	120 mV

Note 1: The maximum total combined output power on the +3.3V and +5V rail is 40W.
Note 2: Measured by a 20MHz bandwidth limited oscilloscope and the each output is connected with a 10μF Electrolytic Capacitor and a 0.1μF Ceramic Capacitor.
Note3: The +5V output is set between 5.08V to 5.13V by variable resistor and all output at 60% rated load and the other outputs are checked to be within the accuracy range.
Note4: Total maximum load cannot exceed 80W with 8.6 CFM forced air-cooling and 60W convection cooling.

Ordering Information

PGA-U080AX	AC/DC 80W Open Frame ATX Power Supply

PGA-U080AX

AC/DC 120W Open Frame Power Supply



Features

- Compact size with ATX output
- Supports fanless for 85W
- Input Voltage Range: 90 ~ 260V
- Output Voltage: 5V / 3.3V / 12V /-12V / 5VSB
- Safety Standard: UL, CB, TUV, IEC 60950-1, EN 60950-1
- EMI Standards: FCC Class B/ CISPR22 Class B

Input

- 90 ~260V

Efficiency

- 70% minimum at full load

Hold Up Time

- 16ms minimum at full load, 115Vac input

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 120W with 8.6CFM forced air-cooling, 85W for fanless

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 130K hours at 25°C, 70% full rated load (calculated by MIL217F).

Environment

- Operating Temperature: 0°C to 50°C at full loading

EMI/RFI

- FCC Class B
- CISPR22 (EN55022) Class B

Safety

- UL, CB, TUV,
- IEC 60950-1, EN 60950-1

Dimension

- 83.8 (W) x 152.4 (D) x 40 (H) (mm)

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V5 -12V	5VSB
Max Load Min Load	14A 1A	6A 0A	3A 0A	1A 0A	0.75A 0A
Load Regulation	+/-2%	+/-5%	+7/-3%	+8/-3%	+/-4 %
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	50 mV	50 mV	120 mV	200 mV	120 mV
Noise	50 mV	50 mV	120 mV	200 mV	120 mV

Note 1: The maximum total combined output power on the +3.3V and +5V rail is 70W.
Note 2: Measured by a 15MHz bandwidth limited oscilloscope and the each output is connected with a 0.47μF Capacitors
Note3: The +5V output is set between 5.08V to 5.13V by variable resistor and all output at 60% rated load and the other outputs are checked to be within the accuracy range.
Note4: Total maximum load cannot exceed 120W with 8.6 CFM forced air-cooling.

Ordering Information

PGA-U120AX	AC/DC 120W Open Frame ATX Power Supply

Accessories



KD-100R

1U height, ruggedized Keyboard Drawer with Touchpad for 19" rack cabinet application, EIA-310C industrial standard

- Industrial grade steel housing
- 119-key Keyboard
- Easy to operate Touchpad
- 1U Rackmountable Keyboard drawer with Handle



Specification

Construction

- Standard Rackmount 1U 19" Heavy Duty Steel

Color

- Black

Keyboard & Mouse

- USB type 119-key keyboard and touchpad. (two USB ports required)

Drawer Design

- Handpad for comfortable typing

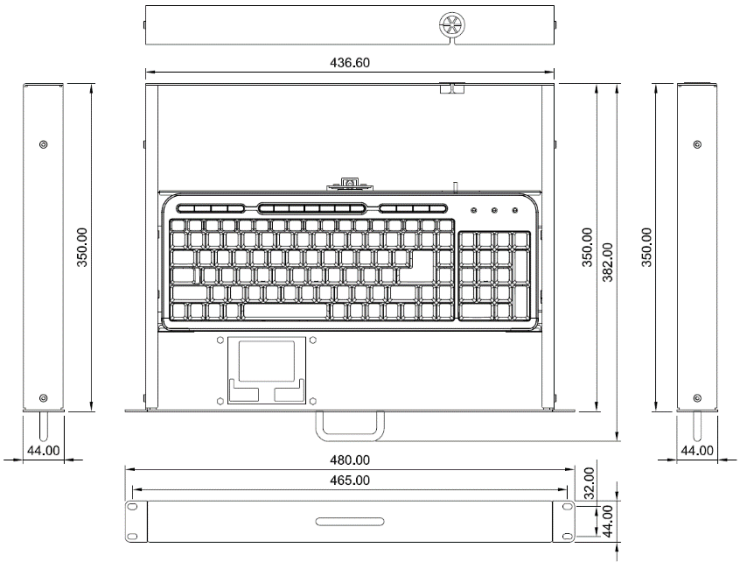
Dimension

- 436.6 (W) x 350 (D) x 44 (H) mm

Gross Weight

- 8Kgs

Mechanical Drawing



Ordering Information

KD-100R-BLK	1U Keyboard Drawer with USB Touchpad and keyboard , black color

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