WMC-603B
Wallmount-Chassis
User Manual

Copyright Notice

This document and product is copyrighted, January 2014, by AICSYS, Inc. All rights are reserved. No part of this manual may be reproduced, copied, or translated without prior notice to AICSYS, Inc.

WMC-603B is trademark of AICSYS, Inc.

Disclaimer:

Specification and information contained in this manual are provided for reference only. We do not assume any responsibility arising out of the application of the products. This manual is subject to change without any notice.

January 2014

Table of Contents

Chapter 1 Getting Started 4

General Information 4
Product Specification 4
Packing Checklist 4
Recommended Tools 5
Recommended Working Environment 5
Chassis Mechanical Drawing 5

Chapter 2 Installation Guide 6

Unpacking the Chassis 6
Removing the top cover and hold-down clamp 6
Installing the Power Supply Unit 7
Installing the Backplane 10
Installing the Expansion Card 10

Appendix A Power Supply Unit 11

Appendix B Motherboard 11

Chapter 1 Getting Started

General Information

The WMC-603B Wallmount chassis supports 6-Slot backplane for Full-size SBC, one 5.25" and one 3.5" external drives, and one 3.5" internal drive. The chassis has one 12cm ball-bearing fan with replaceable air filter, and supports PS2 power supply.

Product Specification

Construction	Heavy-duty steel
Drive bay	1 x 5.25" external drive 1 x 3.5" external drive 1 x 3.5" internal drive
Cooling fan	1 x 12cm ball-bearing fan with replaceable air filter
Switch	On/Off switch and Reset switch
Indicator	Power On/Off and HDD activity LEDs
Expansion	6 x full-height expansion slots
Dimension (W x D x H)	260 x 408.5 x 172mm; 10 x 16.1 x 6.8 inches
Weight	NW: 6.3kg / 13.9lbs GW: 7.5kg / 16.6lbs

Packing Checklist

2 x Wallmount bracket	10 x PSU & Card hold bracket screw
4 x Rubber foot adhesive	16 x Backplane screw
7 x 3.5" HDD screw	3 x Card hold bracket
8 x 5.25” screw	15 x Standoff

Recommended Tools

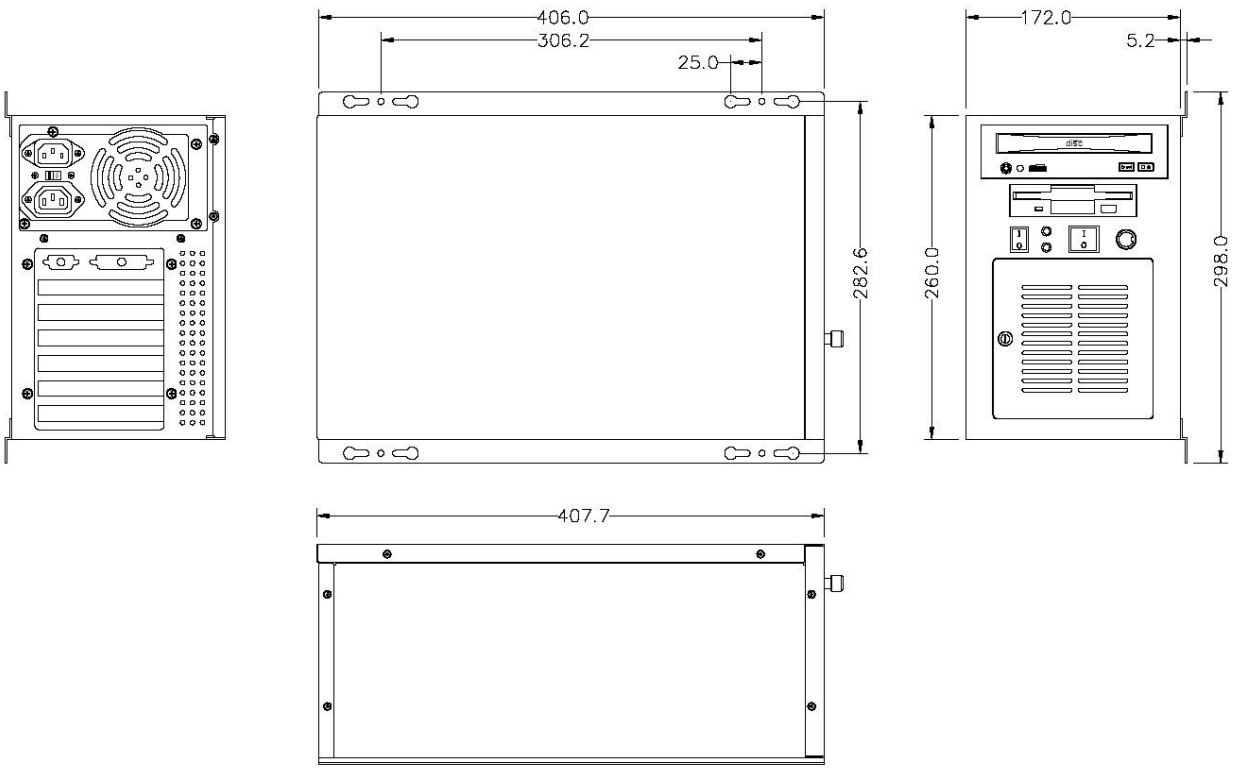
- Philips Head Screwdriver
- Flat Head Screwdriver
- Forceps (for pulling out jumpers and screws)

Recommended Working Environment

A flat anti-static work surface is required when assembling a complete system

Chassis Mechanical Drawing

Drawing with dimension in millimeter:



Chapter 2 Installation Guide

Unpacking the Chassis

The WMC-603B is shipped in a plastic bag that is placed inside a cardboard box. The accessories are also shipped with the chassis. When you unpack the chassis you must:

- Make sure all the accessories and components listed above are present.
- Make sure the chassis has not been damaged in anyway. The installation steps outlined above are described in detail below. Please refer to the relevant section(s).

Removing the top cover and hold-down clamp

The top cover is secured by a total of six screws (two on each side and two on rear side of the chassis).To remove the top cover, please follow the steps below:

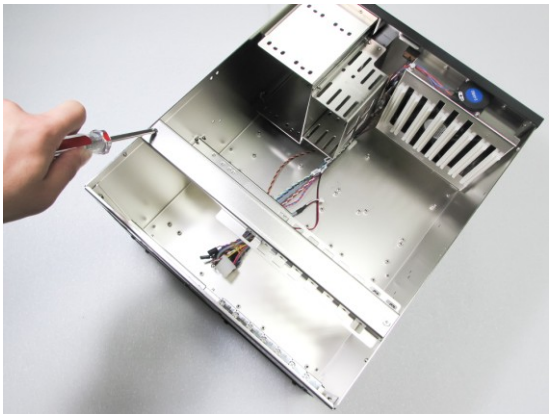
1. Remove all four top cover retention screws

2. Slide the cover toward rear of the chassis, then lift the cover off the chassis

Installing the Power Supply Unit

Once the top cover have been removed, a user supplied PSU can be installed. The PSU is installed at the rear of the chassis and secured to the chassis with four retention screws. To install the PSU, please follow the steps below:

1. Remove the card hold bracket by removing the two screws



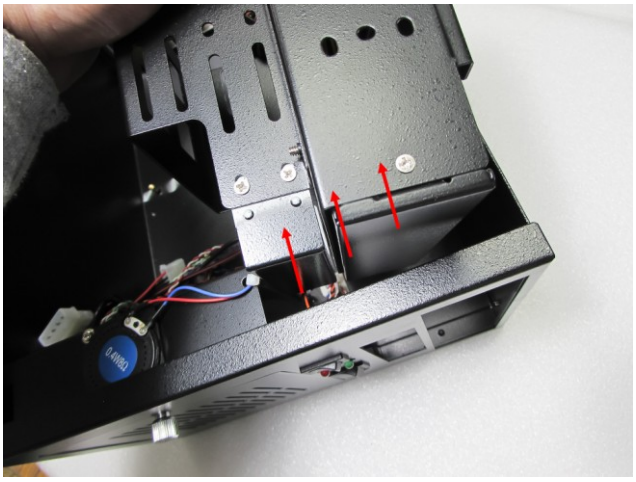
2. Correctly position the PSU at the rear of the chassis with the power switch and cable socket both facing outwards. Secure the PSU by inserting four retention screws through the rear of the chassis

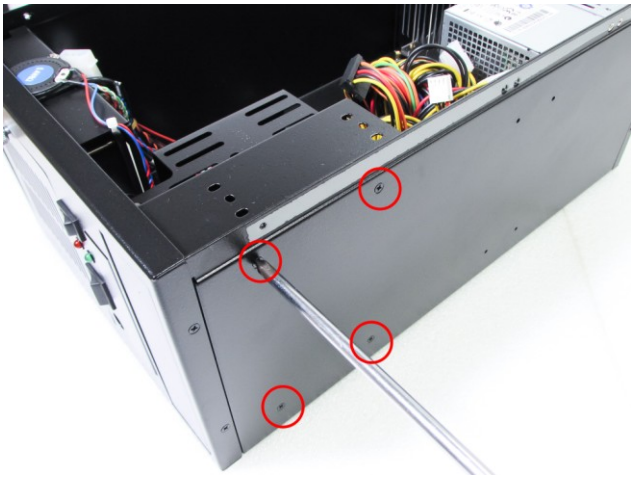
- Compatible Power Supply Unit models are available in Appendix A.

Installing the Hard Disk Drive

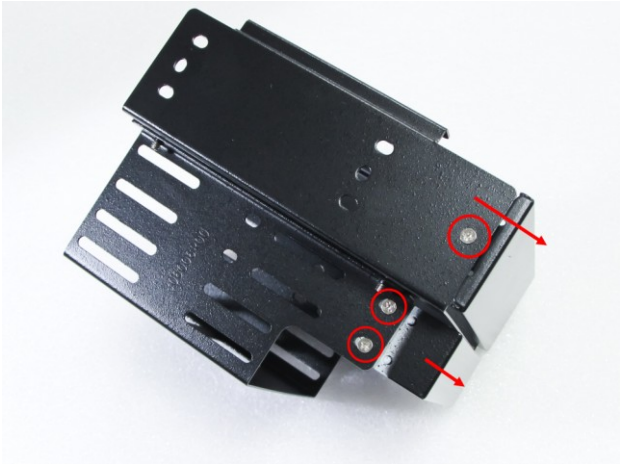
The WMC-603M chassis supports one 5.25” and two 3.5” drive bays. To install the drives, please follow the steps outlined in the sections below.

1. Remove the screws (4x screw per one drive cage) and take the drive cage out

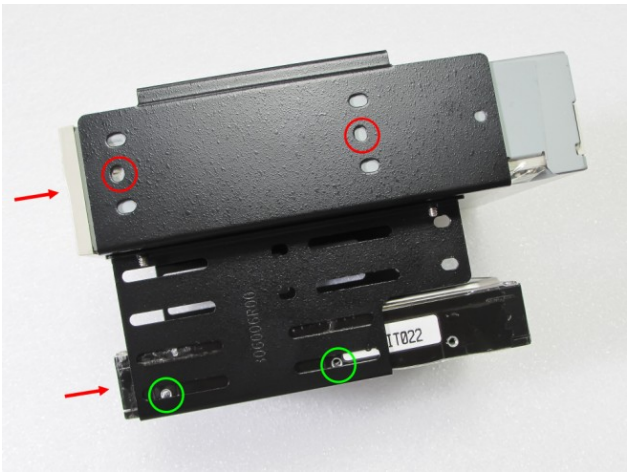




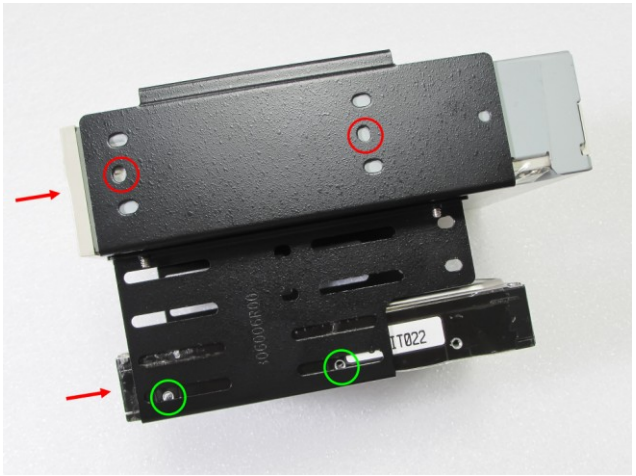
2. Remove the screws to remove the drive cage covers. Secure the Optical drive and/or hard disk drive to the cage.



3. Carefully insert the ODD drive into the drive tray, and secure the drive by inserting four retention screws (two on each side, red circle) through the sides of the drive tray



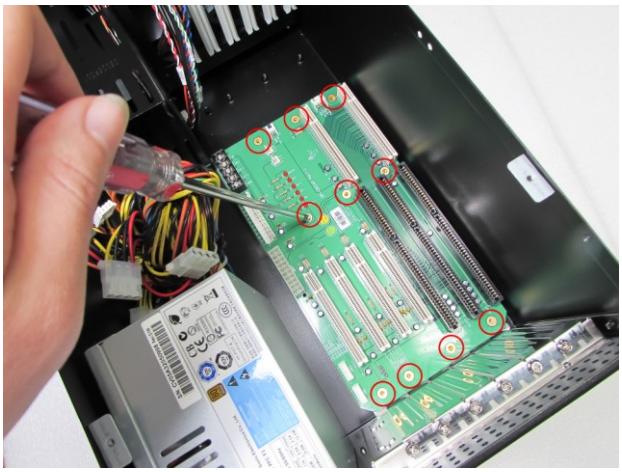
4. Carefully insert the 3.5” HDD into the drive tray, and secure the HDD by inserting four retention screws (twor on each side, green circle) through the sides of the drive tray



Installing the Backplane

To install the Backplane, please follow the instructions below:

1. Lay the Backplane to chassis and secured with screws to the standoff below



- Different motherboard may have different Screw hole positions, please refer to their own User manual for details.
- Compatible backplane models are available in Appendix B.

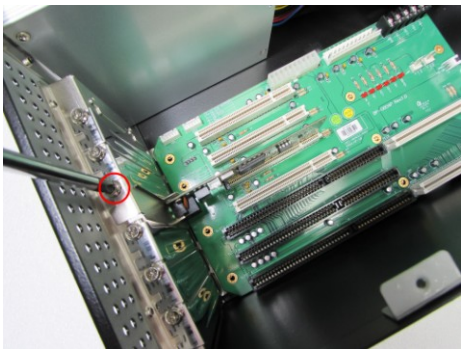
Installing the Expansion Card

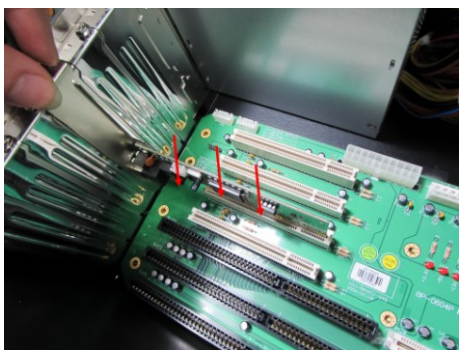
To install the Expansion card please follow the instructions below:

1. Remove the slot cover by removing the screw at top of the slot cover

2. Slide the Expansion card into the socket on the backplane reserved for the Expansion card.

3. Secure the expansion card I/O bracket with screw





- Please make sure to disconnect the Power Supply before installing the Expansion Card.
- Do not turn on power during the installation process
- Electrostatic Discharge (ESD) can damage electronic components. To prevent damage to your system, use a grounded wrist strap designed to prevent static discharge

Appendix A Power Supply Unit

Compatible Power Supply Units are listed in the table below:

Model number	Wattage	Type	Dimension (W x H x L)
SS-400ES	400W	Single output	150 x 140 x 86mm
SS-600ES	600W	Single output	150 x 140 x 86mm
MPD-830C	300W	DC-input, Single output	150 x 140 x 86.2mm

Appendix B Motherboard

Compatible AICSYS Backplane are listed in the table below:

Model number	PICMG CPU	PCI	ISA	PCIe
BP-0604P	2	4	1	N/A
BPE-0603P	1	3	N/A	2
BPH-0504P	N/A	4	N/A	N/A

The Global Choice for
Premium Industrial Computer Products

www.aicsys.com