YY-W2xx
Pedestal Server Chassis

YY-R5xx

5U Rackmount Server Chassis

Installation Guide

2005.04. Version B

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1. INTRODUCTION

YY-W2 series Server Chassis is designed in compliant with EEB3.0 specification (refer to www.ssiforum.org) and ATXV2.1 (refer to www.formfactors.org)

Mother Board:

● YY-W2 is designed for extended ATX (12"x13"), in compliant with ATX spec, CEB and EEB3.0 spec.

● **Storage:**

The chassis supply drive bays with flexible configuration:

● A type : Supply 8 x 5.25" + 2 x 3.5" HDD drive bays

● B type: Supply 5 x 5.25"drive bays and 7 x 3.5" HDD drive bays, i.e. A type plus HDD fixed cage

● C type: Supply flexible and expandable drive configuration with multi bay backplane module, support for SCSI/SATA/IDE HDD, well performed thermal solution and HDD indicators.

I/O Expansion Slots:

● 7 slots

Power Supply, Optional:

● Single Power Supply of 420W~650W

● Redundant power supply of 320W~600W

Operating Temperature:

● 5℃ to 40℃(41℉ ~ 104℉)

Thermal Solution:

- One(1) 120x120mm Cooling Fan is installed, rear mounted
- Options of two (2) 60*60*25mm, rear mounted.

Switches and LED Indicators on front panel

- Power Switch (Push Switch)
- Reset Button (Push Switch)
- Power On LED (Green)
- HDD LED (Orange flash)
- FAN ALARM (Red)
- LAN LED (Green/Flash) X 2
- Power Fail LED [optional /reserved for Power Failure Signal]
- USB Ports X 4, Audio ports [Optional]

Rack Mount Rail: (Optional)

- 24Inch Sliding Rails

Chassis Dimensions & Weight

- Depth 600 mm* Width 220 mm* Height 427mm
  (23.6-in * 8.66-in * 16.8in)
  Net Weight with Single Power Supply is 15Kg(33lbs)
- Material for Chassis: SECC sheet metal

2. Hardware Packing List

When you unpack your YY-W2 Server Chassis, check that all the items that you ordered are present in good condition. Review the inventory checklist below to be sure that the components and optional components that you ordered are included. If anything is missing or damage, contact your retailer as soon as possible. Don't use any uncertified material or components in this system.

- Chassis

  ☐A type

  ☐B type

  ☐C type ☐ATA IDE   ☐SCSI   ☐SATA   Raid Module

  Power Supply (Optional)

  ☐Single Power Supply   ☐ Redundant Power Supply

  Power Watts: _____

- Optional Accessories:

  ☐AC Cord

      ☐USA   ☐Japan   ☐Germany   ☐Others

  ☐Card Clamp Holder

  ☐Foot Stands (two pairs)

  ☐Rack Mount Sliding Rails 24-inch

  ☐Intrusion switch

  ☐Manual

3. System Installation

3.1 Chassis Open

To release two (2) screws on the rear side of chassis, pull the side cover with handle.

3.2 Motherboard Installation

Check mounting holes of motherboard, to screw the standoffs required to chassis. Put the Motherboard into the chassis, than screw in for fixing.

Next step is to plug the DC ATX-20(or EPS-24) pin connector on the Power Supply to Motherboard and insert the power switch connector properly.

Finally, plug the IDE cable connector to IDE interface connector on the motherboard. In order to reduce the interference of cooling fans' airflow, please adjust all cables to proper positions.

3.3 PCI Add-on Card Installation

Remove the tail gate bracket, install PCI card into motherboard, and screw in bracket to rear window of chassis.

The chassis could be optional required A Card Clamp Holder which is used to clamp the Add-on Card for avoiding any popping issue.

To remove The Clamp Holder first, install Add-on Cards as usual; adjust the holder's height for clamping well the Add-on Cards.

3.4 CDROM/HDD Installation -

YY-W2 Server Chassis is designed to install drive peripherals by rails, it allow integrator to pre-assembly peripherals for fasten system assembly as module feed in.

To remove the front panel fist, the front panel is snap in chassis with hocks (or/and screw on by 4pcs screws), please screw off the screws and pull the front panel forward.

- To remove the metal covers (vented panel).
- Screw a pair of rails to drive.
- Slide in the drive install chassis.
- Screw in two (2) 6#32 on the front plate.

3.5 Hard Disk Drive Installation -How to use Fixed HDD Cage

YY-W2 Server Chassis is optional could be built with HDD cage for 5-devices HDD, and the cage designed with anti-vibration pads for each HDD. i.e. the YY-W201 B type.

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To screw off four (4) screws in the front plate of chassis, the HDD cage could be removed from chassis, install HDD into cage. The cooling fan of HDD cage could be easy swap, release two thumb screws in the front of HDD cage, lift off the fan holder, swap fan and assembly again into cage.

How to use HDD brackets
YY-W2 Server Chassis is built in two sets of HDD mounting bracket for 2-devices HDD assembly at side of 5.25" drive bay; mounting brackets are packed into the accessory box.

3.6 Instructions for Switches and LED Indicators on front panel

The switches and led indicators on front panel have the functions as following:

⏻ POWER SW: Push Switch, The system power on/off, connects to M/B.

Reset SW: Push switch, connect to M/B

- POWR LED: The system power LED (green), connect to M/B.

- ⚠POWER FAILURE LED: Reserved and optional requested, it may connected with the Power TTL signal wire supplied by PSU

RED: The power module is in abnormal operation

🌀FAN ALARML LED: Reserved, it may connect with optional control board or M/B.

RED: Fan is in abnormal Operation

🖧LAN LED: GREEN - Linked

GREEN Flash - Active

🗄HDD LED: ORANGE FLASH: HDD-OS ACCESS

🔌USB PORT (Cable is optional attached to kits box)

Security Lock: The front door is lockable.

Optional Intrusion Switch

The chassis could be built with intrusion switch, assembly in left side of chassis, when side cover removed the system will alarm for intrusion, if connected.

3.7. Instructions for cooling fan assembly

The chassis could be mounted optional two 60x60 cooling fans in rear mounted for strengthen the air flow by pass of Add-on Cards.

3.8 Rack Mount Sliding Rails Installation

YY-W2 needs to use 24" rails (optional).

Screw the rails to both sides of the chassis by two M4 screws. Then fix the main rails to the Rack Mount Cabinet and put the server chassis unit into Rack Mount Cabinet.   The drive bays of YY-W2 could be rotated as horizontal for keeping CDROM well in rackmount use.

3.9 System Assembly

When above steps are done, properly connect all accessories to the system. Then the user can start to install the O/S and required software to the system according to the instruction on the manual of Motherboard.

4. Introduction of IDE/SCSI/SATA multi-bay backplane modules

YY-W2 Server Chassis could be optional built with HDD multi-bay backplane raid modules.

SI-0357

SI-0347

SI-0237

Type A+ SI-0357 x 1   Type A+ SI-0237 x 2

5. How to change versatile as Rackmount Chassis (5U)

1. To remove top cover and bottom cover of chassis.

2. Screw in rack bracket and handles

3. Slide into EIA cabinet