

General Information

Read Me First

- 1. The Barebone User's Manual is available for download from our Web site at http://www.tyan.com. Make sure to read all precautions and instructions before you start installing the server system.
- 2. Refer all servicing to qualified personnel to avoid the risk of damage to the server system.
- 3. Exercise normal ESD (Electrostatic Discharge) procedures during system integration. TYAN/MiTAC recommends wearing gloves and an anti-static wrist strap to avoid possible damage to the equipment.
- 4. Current processor socket design places the pins on the motherboard instead of the processor itself. Exercise caution when installing the processors as the manufacturer's warranty does not cover damage inflicted upon the motherboard, including damage to the CPU sockets.

(2) M7108-CB

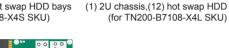
(pre-installed)

(2) M7108-HDBB

(pre-installed)

Box Content





(1) M7108-PDB-L

(1) M7108-PDB-U (pre-installed) (pre-installed)







Accessories









(2) M7108T200-FPB

(pre-installed)





(8) CPU Clip for Narrow Non-Fabric

CPU Carrier







(2) US Power Cord





(4) M7108-HSBB/

M7108-HSBB-X4L

(pre-installed)

(4) M7108T200-L16-1L

(pre-installed)

(2) Power Supply, SBU,2200 W,

DELTA,DPS-2200AB-2 D





Anti-Static Wrist Stra





(4) TYAN® S7108GMR

(1) M7108-HDBP-E24/ M7108-HDBP-U12

(pre-installed)

(4) M7108T200-R8-1I

(pre-installed)

(4) FAN, 80*80*56mm

(pre-installed)

(2) EU Power Cord

(1) External Dongle Cable, 1*VGA+2*USB (2) Screw Kit (for –X4S SKU)

Required Hardware Components

To avoid integration difficulties and possible board damage, your system must meet the following minimum requirements:Processor: Intel® Xeon® Scalable Processer Family (Skylake-SP) series processors with TDP up to 125W (2U4N system) • Memory Type: (8+8) DDR4-based DIMM sockets including:

- RDIMM/LRDIMM 2666 w/ ECC (1.2V) when 1DPC/2DPC

- RDIMM/LRDIMM 3DS 2666 w/ ECC (1.2V) when 1DPC/2DPC • Hard Disk Drives: (24) 2.5" hot-swap SATA 6G SSD/NVMe U.2 HDDs (2.5" SSD/NVMe SKU: TN200-B7108-X4S)

(12) 3.5" hot-swap SATA 6G/SAS12G HDDs (3.5" HDD SKU: TN200-B7108-X4L) Rack Mount Kit (Industry 19" rack-mountable)

NOTE: The updated hardware requirements of the system please refer to the barebones user's manual on our website at www.tyan.com

Motherboard Placement



Tools Required



Motherboard Placement





3 System Installation

TN200-B7108-X4S



TN200-B7108-X4L

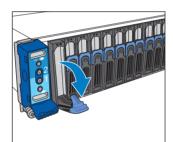


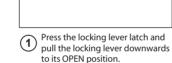
Preparing the Chassis

Read normal ESD (Electrostatic Discharge) procedures.

Place your TYAN® Server Chassis on a flat anti-static surface to perform the following integration procedures. Read ESD procedures before reaching inside to install components.

Install the Front Hard Disk Drives (2.5")





(4) Install a 2.5" hard disk drive

secure it with 4 screws.

CONNECTORS 1. IPMI_LAN Connector (J6)

SLOTS

2. TPM and Port 80 Header (J9)

3. BMC Debug Port(J2)

4. ID LED and Button (SW1)

5. Serial Port (COM Port) (J1)

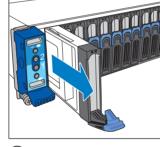
A Mini PCle 200 (for Riser PCle x16) (J15)

D Mini PCle 80 (for Riser PCle x8) (J11)

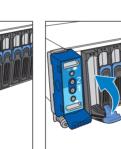
6. USB3.0 Connector (J4)

B OCP connector B (J14) C OCP connector A (J12)

into the HDD tray, and then



Pull the locking lever to remove the HDD tray from its bay.



5 Install the HDD tray into its bay and press firmly until it is fully

7. USB3.0 Connector (J3)

9. RAID KEY Header (J58)

10. Intrusion Header (J16)

d Clear CMOS Jumper (J24)

JUMPER

8. BMC Heartbeat LED (LED1)

a ME Recovery Mode Jumper (J21)

b LPC AND eSPI MODE SET Header (J5)

c SATA AND SATA DOM SET Jumper (J22)

e SATA AND SATA DOM SET Jumper (J29)

NOTE: There is risk when setting the jumper by yourself.

11. SATA3.0 (SATA_DOM0)(FOR SATA DOM) (J23)

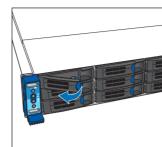
12. SATA3.0 (SATA_DOM1)(FOR SATA DOM) (J30)

Remove the screws securing the HDD tray bracket. Then remove

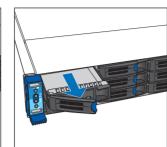
the HDD tray bracket.

6 Close the locking lever and press the latch firmly to secure the tray Repeat the same procedures to install other HDD trays.

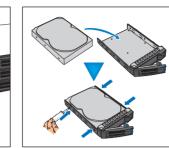
Install the Rear Hard Disk Drives (3.5")



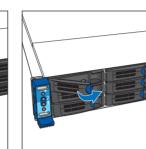
1 Press the locking lever latch and pull the locking lever to the left to its OPEN position.



Pull the locking lever to remove the HDD tray from it. the HDD tray from its bay.



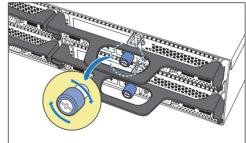
3 Install a 3.5" hard disk drive into the HDD tray, and then secure it



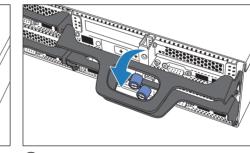
4 Install the HDD tray into its bay and press firmly until it is fully

5 Close the locking lever and press the latch firmly to secure the tray Repeat the same procedures to install other HDD travs.

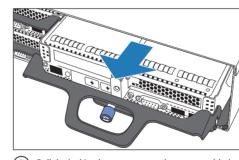
Remove the Compute Blade



1 Loosen the thumb screw securing the locking lever.



Push the locking lever downwards to eject the compute blade slightly.



3 Pull the locking lever to remove the compute blade Repeat the same procedures to remove other compute blades.

Install the Processor



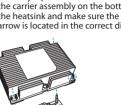
Align and install the processor on the carrier.



2 Carefully flip the heatsink. Then install

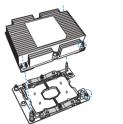


the carrier assembly on the bottom of the heatsink and make sure the gold arrow is located in the correct direction

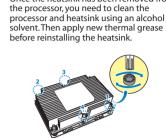


3 Remove the CPU cover. NOTE: Save and replace





4 Align the heatsink with the CPU socket by the guide pins and make sure the gold arrow is located in the correct direction. Then place the heatsink onto the top of the CPU socket.



5 To secure the heatsink, use a T30 Security Torx to tighten the screws in a sequential order (1⇔2⇔3⇔4). NOTE: When disassembling the heatsink, loosen the screws in reverse order (4⇔3⇔2⇒1).

Install the Memory

the CPU cover if the

from its socket.

1 Unlock the clips.

processor is removed



(2) Insert the memory module.



Remove the screw securing the PCI dummy bracket,

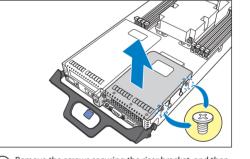
and then remove the PCI dummy bracket.

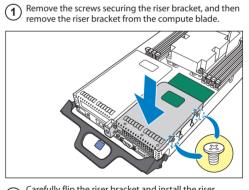
Align the add-on card with the riser connector and

slide in place. Then secure it with a screw.

3 Lock the clips.

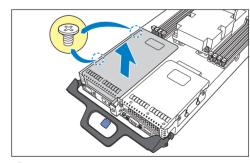
Replace the Add-On Card (Optional)



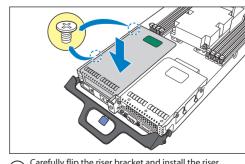


3 Carefully flip the riser bracket and install the riser bracket into its slot on the compute blade. Then secure

Replace the Add-On Card (Optional)



Remove the screws securing the riser bracket, and then remove the riser bracket from the compute blade.

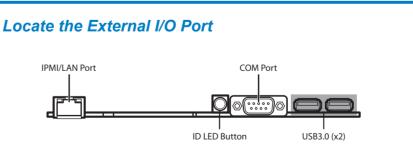


and then remove the PCI dummy bracket. Align the add-on card with the riser connector and slide in place. Then secure it with a screw.

Remove the screw securing the PCI dummy bracket,

Carefully flip the riser bracket and install the riser bracket into its slot on the compute blade. Then secure

4 I/O Ports







NOTE: Please save and replace the CPU cover when returning

