S7045 Quick Installation Guide
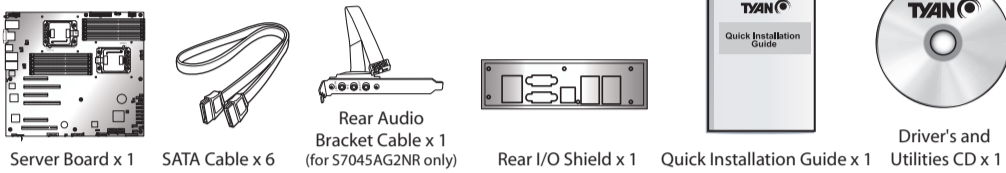
Document # D2168-100 / Revision 1.0

TYAN

Read Me First

1. The motherboard 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 board.
2. Refer all servicing to qualified personnel to avoid the risk of damage to the server board.
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 extreme caution when installing the processors as the manufacturer's warranty does not cover damage inflicted upon the motherboard, including damage to the CPU sockets.
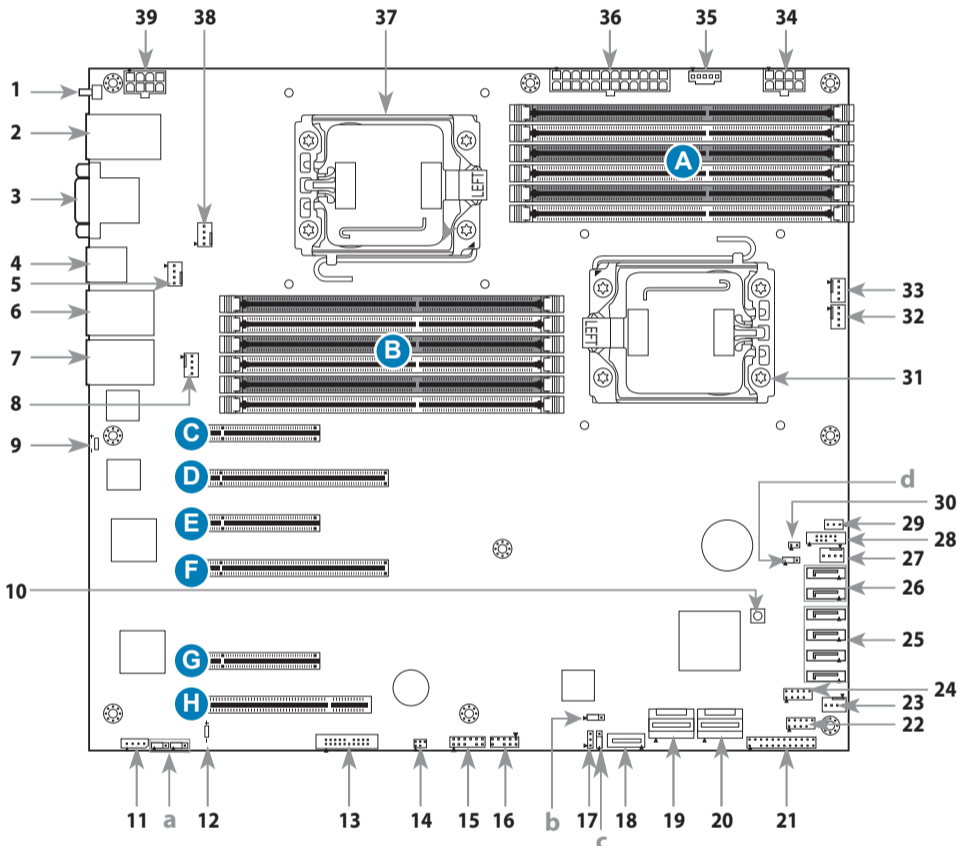
Package Contents

Server Board x 1   SATA Cable x 6   Rear Audio Bracket Cable x 1 (for S7045AG2NR only)   Rear I/O Shield x 1   Quick Installation Guide x 1   Driver's and Utilities CD x 1

Required Tools

Phillips Screwdriver   Flat-head Screwdriver   Anti-Static Wrist Strap

Motherboard Placement

CONNECTORS

1 ID LED Button (SW2)
2 LAN Port # 5 (LAN5)
   USB 2.0 Ports
3 VGA Port
   COM1 Port
4 USB 2.0 Ports
5 Fan Connector (SYS_FAN_4, J37)
6 LAN Ports #4 / #3 (LAN4/LAN3)
7 LAN Ports #2 / #1 (LAN2/LAN1)
8 FAN Connector (SYS_FAN_5, J38)
9 ID LED (LED14)
10 Clear CMOS Reset Button (CMOS CLEAR BTN)
11 IPMB Connector (J193)
12 BMC Heart Beat LED (LED15)
13 Front Fan Connector Reserved for Barebone (J33)
14 SAS SMBus/SGPIO Header (J205)
15 Rear Audio Jack Header (J213)
16 Front Panel Audio Header (J176)

17 SMBus Host Header (J197)
18 Vertical Type-A USB Connector (USB3)
19 Mini SAS Connector (SAS0/SATA, J2002)
20 Mini SAS Connector (SAS1, J2003)
21 Front Panel Header (J189)
22 USB Front Panel Header (J57)
23 Fan Connector (SYS_FAN_3, J32)
24 USB Front Panel Header (J56)
25 SATA2.0 Connector (SATA2~SATA5)
26 SATA3.0 Connector (SATA0/SATA1)
27 Fan Connector (SYS_FAN_2, J29)
28 SATA SGPIO Header (J62)
29 Patsburg Upgrade ROM Module Connector (J217)
30 Chassis Intrusion Header (J191)
31 CPU Socket (CPU0)
32 Fan Connector (SYS_FAN_1, J27)
33 Fan Connector (CPU0_FAN, J23)
34 SSI 8-pin CPU Power Connector (PW3)
35 PSMI Connector (J58)
36 ATX 24-pin Power Connector (PW1)
37 CPU Socket (CPU1)
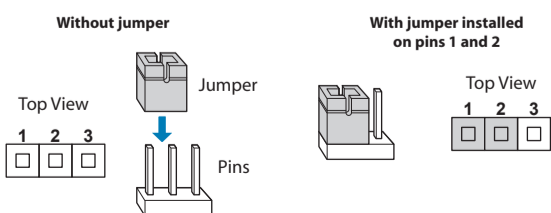38 Fan Connector (CPU1_FAN, J26)
39 SSI 8-pin CPU Power Connector (PW2)

SLOTS

A CPU0 DIMM Slots [Channel A / B / C]
B CPU1 DIMM Slots [Channel A / B / C]
C PCI-E x8 slot (x8 link)
D PCI-E x6 slot (x8 or x16 link)
E PCI-E x8 slot (x8 link or N/A)
F PCI-E x16 slot (x16 link)
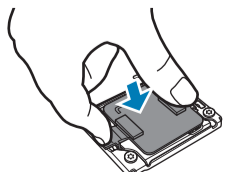G PCI-E x8 slot (x4 link)
H PCI slot (32-bit)

JUMPERS

a COM Select Jumper (J35, J36)
b BIOS Recovery Mode Jumper (J198)
c Flash Security Jumper (J196)
d ME Recovery Mode Jumper (J195)

Jumper Cap On/Off

Without jumper   **With jumper installed on pins 1 and 2**

Top View   Jumper
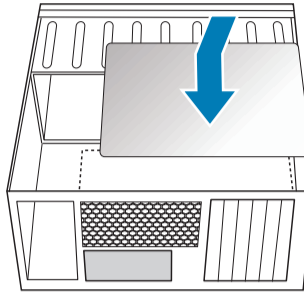1 2 3

Pins

Top View
1 2 3

DOA/ RMA Reminder

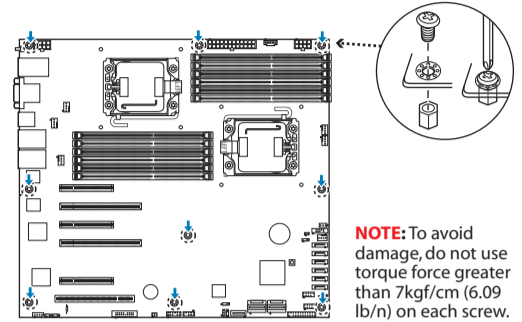**NOTE:** Please save and replace the CPU protection cap when returning the server board for service.

1 Install the Server Board
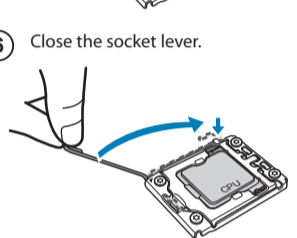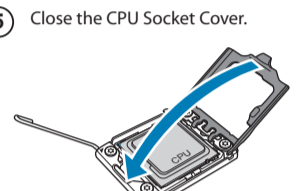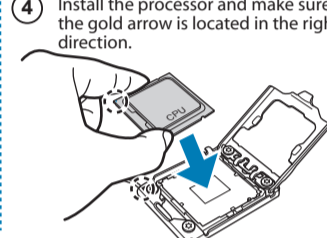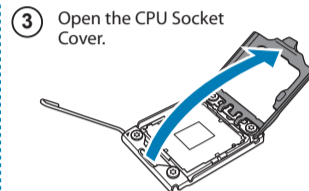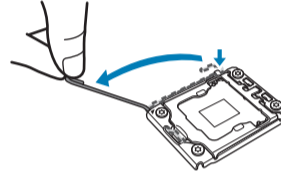
① Insert the server board into the chassis.

② Attach the server board to the chassis by securing the screws on the designated locations.

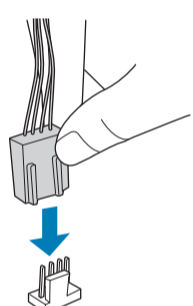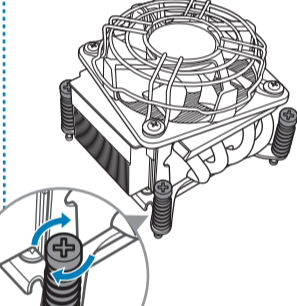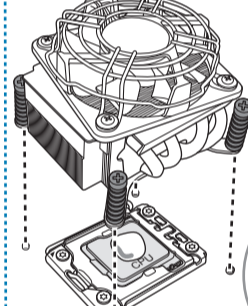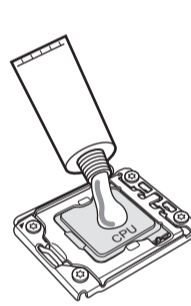**NOTE:** To avoid damage, do not use torque force greater than 7kgf/cm (6.09 lb/n) on each screw.

2 Install the Processor

① Remove the CPU protection cap.
② Open the socket lever.
③ Open the CPU Socket Cover.
④ Install the processor and make sure the gold arrow is located in the right direction.
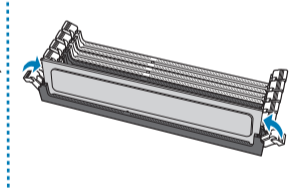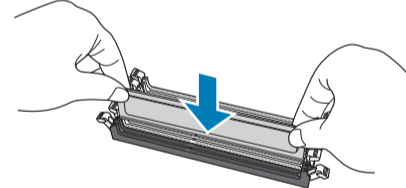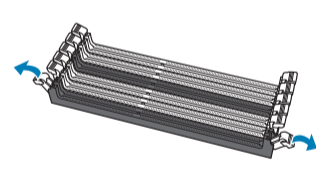⑤ Close the CPU Socket Cover.
⑥ Close the socket lever.

3 Install the CPU Heatsink

① Apply the thermal grease.
② Install the CPU heatsink.
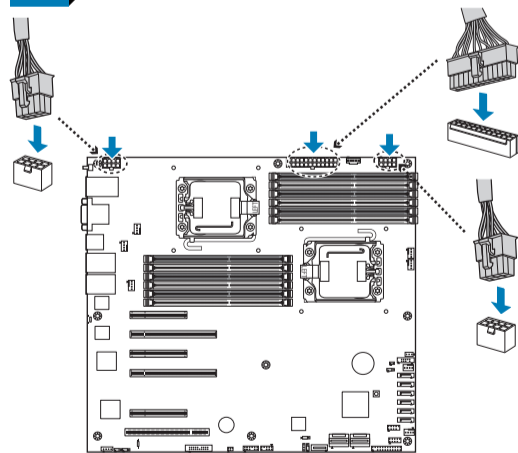③ Secure the heatsink screws.
④ Connect the heatsink fan cable.

4 Install the Memory
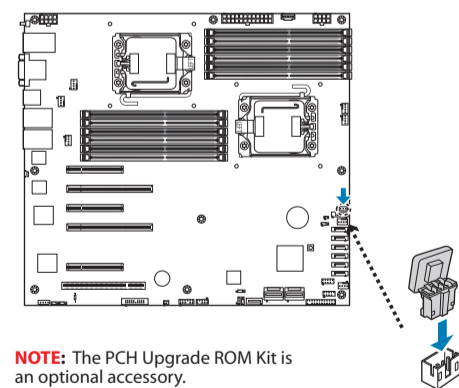
① Unlock the clips.
② Insert the memory module.
③ Lock the clips.

5 Install the Power Cable

6 Attach the PCH ROM Kit

NOTE: The PCH Upgrade ROM Kit is an optional accessory.

Locate the External I/O Ports

LAN5 (dedicated IPMI LAN)   LAN2 (i350)   LAN1 (i350)

ID LED Button   USB 2.0   VGA   COM1   USB 2.0   LAN4 (82574L)   LAN3 (82574L)

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