SUPERMICRO®

X14DBI/X14DBI-T

Quick Reference Guide Rev. 1.0b

Contact Information

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For your system to work properly, please download appropriate drivers/images/user's manual from the links below:

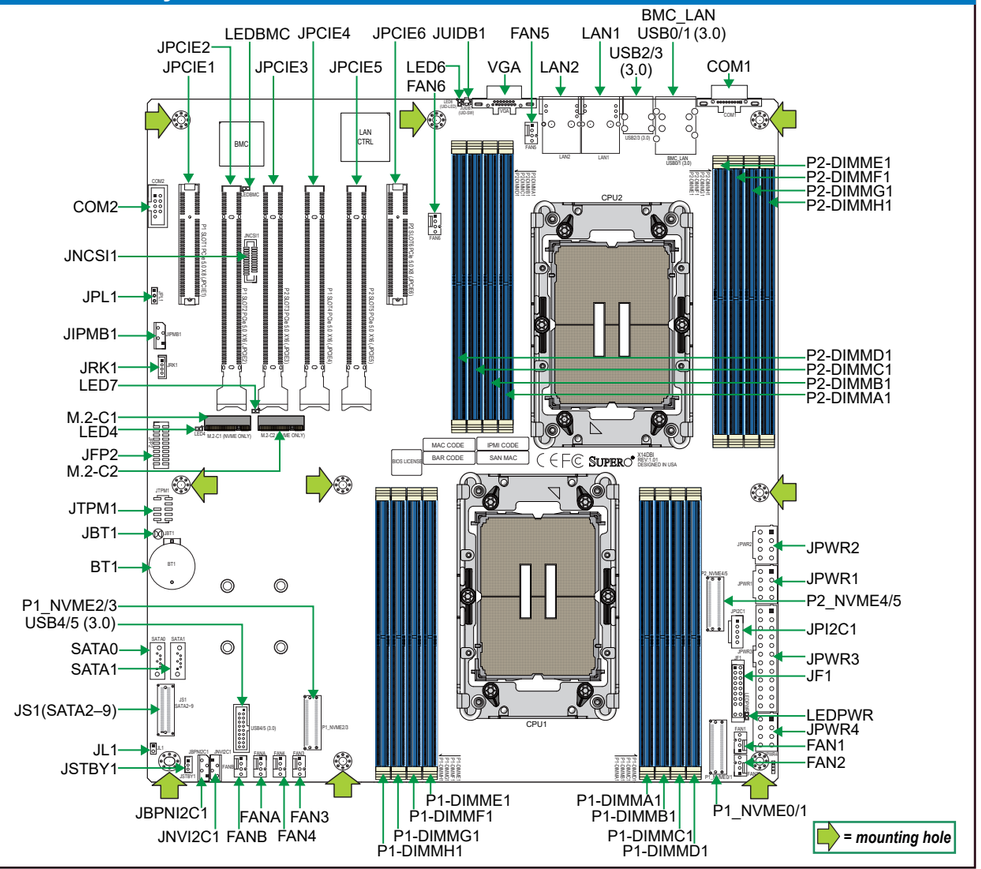
- Manuals: https://www.supermicro.com/support/manuals
- Drivers & Utilities: https://www.supermicro.com/wdl/driver
- Safety: https://www.supermicro.com/about/policies/safety_information.cfm

Package Contents

- One Supermicro Motherboard
- One I/O Shield (MCP-260-00042-3N)
- Two SATA Cables (CBL-0044L)
- One Quick Reference Guide (MNL-2691-QRG)
- Two E2A Carriers for XCC Processors (SKT-1543H-0000-FXC)
- Two E2B Carriers for HCC/LCC Processors (SKT-1544H-0000-FXC)

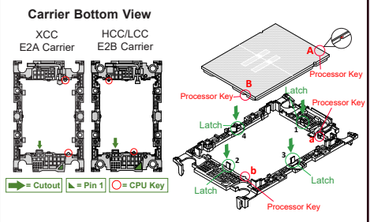
WARNING: This product can expose you to chemicals including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Motherboard Layout and Features

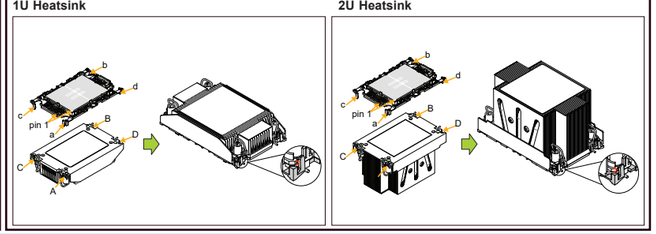


Processor/Heatsink Installation

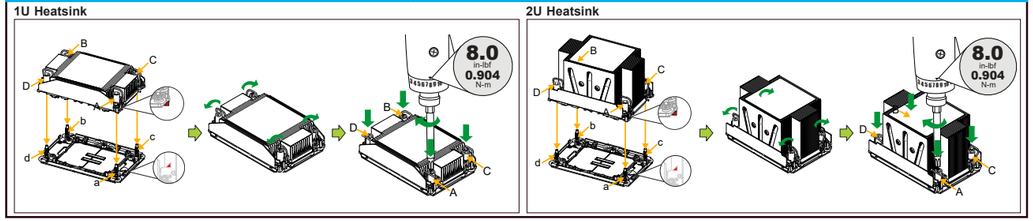
1. Processor Carrier Overview



2. Assembling the Processor Heatsink Module (PHM)



3. Installing the PHM to the Processor Socket



Connectors

Connector	Description
BT1	Onboard CMOS Battery
BMC_LAN	Dedicated BMC LAN Port
COM1	Rear COM Port
COM2	Front Accessible COM Port Header
FAN1–FAN6, FANA, FANB	CPU/System Fan Headers
JBPNI2C1	Backplane SMBus Header
JF1	Front Control Panel Header
JFP2	Front Accessible VGA Connection Header
JIPMB1	4-pin BMC External I²C Header (for Inlet Temperature Sensor)
JL1	Chassis Intrusion Header
JNCSI1	NC-SI (Network Controller Sideband Interface) Connector
JNVI2C1	NVMe SMBus I²C Header with hot-plug support
JPCIE1 (SLOT1), JPCIE6 (SLOT6)	PCIe 5.0 x8 Slots (SLOT1: supported by CPU1, SLOT6: supported by CPU2)
JPCIE2 (SLOT2), JPCIE4 (SLOT4)	PCIe 5.0 x16 Slots supported by CPU1
JPCIE3 (SLOT3), JPCIE5 (SLOT5)	PCIe 5.0 x16 Slots supported by CPU2
JPI2C1	Power System Management Bus (SMBus) I²C Header
JPWR1, JPWR2, JPWR4	8-pin Power Connectors
JPWR3	24-pin ATX Power Connector
JRK1	Intel VROC Key Header for NVMe RAID support
JS1 (SATA2–9)	SlimSAS x8 Connector with support of eight SATA 3.0 connections
JSTBY1	5 V Standby Power Header
JTPM1	Trusted Platform Module/Port 80 Header
JUIDB1	Unit Identifier (UID) Switch / BMC Reset Button
LAN1, LAN2	1 GbE LAN Ports (for X14DBI), 10 GbE LAN Ports (for X14DBI-T)
M.2-C1, M.2-C2	PCIe 5.0 x4 NVMe M.2 Slots supported by CPU1 (with support of M-Key 2280 and 22110 form factors)
P1_NVME0/1, P1_NVME2/3	MCIO PCIe 5.0 x8 Connectors supported by CPU1, each with support of two NVMe connections
P2_NVME4/5	MCIO PCIe 5.0 x8 Connector supported by CPU2, with support of two NVMe connections
SATA0, SATA1	SATA 3.0 Ports with support of RAID 0/1
USB0/1 (3.0)	Rear USB 3.0 Ports (5 Gbps, Type-A)
USB2/3 (3.0)	Rear USB 3.0 Ports (5 Gbps, Type-A)
USB4/5 (3.0)	USB 3.0 Header with support of two USB connections
VGA	Rear VGA Port

Note 1: *Refer to Chapter 2 of the user's manual for CPU/Heatsink and memory Installation instructions. Please also visit our website at www.supermicro.com for CPU/Memory support updates.*
Note 2: *All graphics shown in this quick reference guide (QRG) are for illustration only. Your components may or may not look the same as the graphics shown in this QRG.*

Jumpers and LED Indicators

Jumper	Description	Default Setting
JBT1	CMOS Clear	Open (Normal)
JPL1	LAN1, LAN2 Enable/Disable	Pins 1-2 (Enabled)
LED	**Description**	**Status**
LED4, LED7	M.2 LEDs (for M.2-C1, M.2-C2)	Blinking Green: Device Working
LED6	Unit Identifier (UID) LED	Solid Blue: Unit Identified
LEDBMC	BMC Heartbeat LED	Blinking Green: BMC Normal (Active), Solid Green: During BMC Reset or during a Cold Reboot
LEDPWR	Onboard Power LED	Solid Green: Power On

CPU Support

This motherboard supports dual Intel® Xeon® 6700/6500-series processors (in Socket E2 LGA 4710) with three UPIs (24 GT/s max.) and a thermal design power (TDP) up to 350 W.

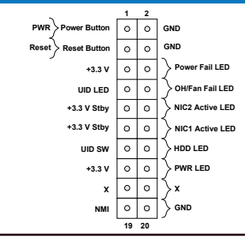
Memory Support

Supports RDIMM DDR5 ECC memory with speeds of up to 6400 MT/s (1DPC) and MRDIMM memory (P-core only) with speeds of up to 8000 MT/s in 16 DIMM slots.

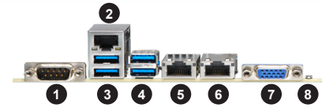
DDR5 Memory Population Table for X14DBI/X14DBI-T Motherboard (2 Processors and 16 DIMMs, 1DPC)

1 Processor DIMM Counts	*Memory Population Sequence (1DPC)*
1 Processor and 1 DIMM	P1-DIMMA1
1 Processor and 4 DIMMs	P1-DIMMA1 / P1-DIMMC1 / P1-DIMME1 / P1-DIMMG1 or P1-DIMMB1 / P1-DIMMD1 / P1-DIMMH1 / P1-DIMMF1
1 Processor and 8 DIMMs	P1-DIMMA1 / P1-DIMMB1 / P1-DIMMC1 / P1-DIMMD1 P1-DIMME1 / P1-DIMMF1 / P1-DIMMG1 / P1-DIMMH1
2 Processor DIMM Counts (Recommended)	*Memory Population Sequence (1DPC)*
2 Processors and 8 DIMMs	P1-DIMMA1 / P1-DIMMC1 / P1-DIMME1 / P1-DIMMG1 P2-DIMMA1 / P2-DIMMC1 / P2-DIMME1 / P2-DIMMG1
2 Processors and 8 DIMMs	P1-DIMMB1 / P1-DIMMD1 / P1-DIMMF1 / P1-DIMMH1 P2-DIMMB1 / P2-DIMMD1 / P2-DIMMF1 / P2-DIMMH1
2 Processors and 16 DIMMs	P1-DIMMA1 / P1-DIMMB1 / P1-DIMMC1 / P1-DIMMD1 P1-DIMME1 / P1-DIMMF1 / P1-DIMMG1 / P1-DIMMH1 P2-DIMMA1 / P2-DIMMB1 / P2-DIMMC1 / P2-DIMMD1 P2-DIMME1 / P2-DIMMF1 / P2-DIMMG1 / P2-DIMMH1

Front Control Panel



Rear I/O Ports



No.	Description	No.	Description
1.	COM Port (COM1)	5.	LAN1 (1 GbE for X14DBI, 10 GbE for X14DBI-T)
2.	Dedicated BMC LAN	6.	LAN2 (1 GbE for X14DBI, 10 GbE for X14DBI-T)
3.	USB0/1 (3.0)	7.	VGA Port
4.	USB2/3 (3.0)	8.	UID/BMC Reset Switch

MNL-2691-QRG-10b