SUPERMICRO®

X12SCV-W

Quick Reference Guide 1.0b

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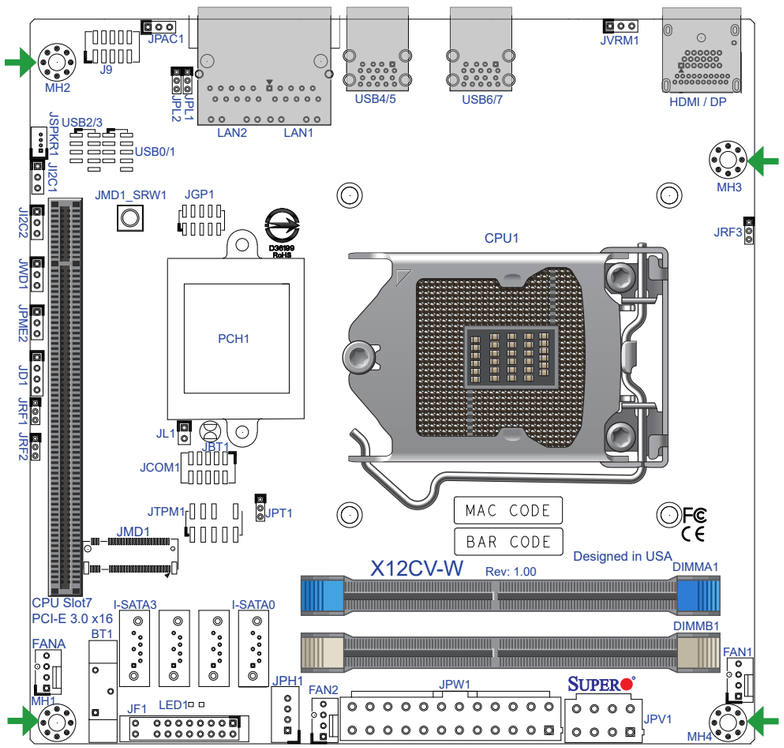
For your system to work properly, please download appropriate drivers/images/user's manual from the links below:
- Manuals: https://www.supermicro.com/support/manuals
- Drivers & Utilities: https://www.supermicro.com/wdl/driver/
- Safety: https://www.supermicro.com/about/policies/safety_information.cfm

Package Contents
- One Supermicro Motherboard
- One Quick Reference Guide
- One I/O Shield
- Four SATA Cables

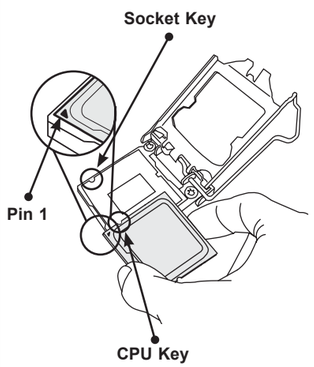
WARNING: This product can expose you to chemicals including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Motherboard Layout and Features

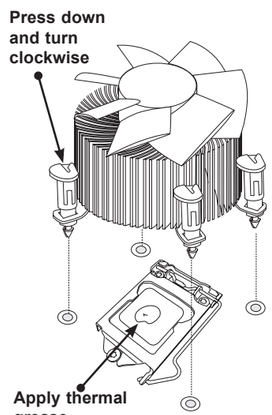


= *mounting hole*

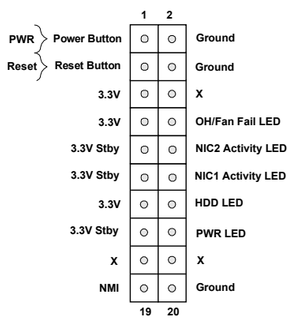
CPU Installation



Heatsink Installation



Front Control Panel



Note: Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as drawings shown in this guide.

Jumpers and Connectors

Jumpers

Jumper	Description	Default Setting
JBT1	CMOS Clear	Open (Normal)
JI2C1, JI2C2	I²C System Management Bus (SMB)	Pins 2-3 (Disabled)
JPAC1	Front Panel Audio Enable	Pins 1-2 (Enabled)
JPL1	LAN1 Enable/Disable	Pins 1-2 (Enabled)
JPL2	LAN2 Enable/Disable	Pins 1-2 (Enabled)
JPME2	Manufacturing Mode	Pins 1-2 (Normal)
JPT1	Onboard TPM Enable/Disable	Pins 2-3 (Disabled)
JRF1, JRF2	SLOT7 PCIe Bifurcation	JRF1 / JRF2 / PEG Pins 1-2 / Pins 1-2 / x16 Pins 2-3 / Pins 1-2 / x8x8 Pins 2-3 / Pins 2-3 / x8x4x4
JRF3	PCIe Lane Reversal	Pins 1-2 x16 (Default) Pins 2-3 Lane Reversal
JVRM1	VRM SMB Clock (to BMC or PCH)	Pins 1-2 (BMC, Normal)
JWD1	Watch Dog Timer	Pins 1-2 (Reset)

Connectors

Connector	Description
BT1	Onboard Battery
FAN1, FAN2, FANA	CPU/System Fan Headers (FAN1: CPU Fan)
HDMI / DP	High Definition Multimedia Interface 2.0, DisplayPort
I-SATA0 - I-SATA3	SATA 3.0 Ports
JCOM1	COM Header
JD1	Speaker Header (Pins 1-4: Speaker, Pins 3-4: Buzzer)
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JL1	Chassis Intrusion Header
JMD1	M.2 M-Key 2242/2280 (PCIe x4) Slot
JMD1_SRW1	M.2 Mounting Hole
JPH1	4-pin HDD Power Connector
JPW1	24-pin ATX Power Connector (Required)
JPV1	8-pin CPU Power Connector (Required)
JSPKR1	Internal Speaker
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
LAN1, LAN2	LAN RJ45 Port
MH1 - MH4	Mounting Holes
SLOT7	PCIe 3.0 x16
USB0/1, USB2/3	Front Accessible USB 2.0 Headers
USB4/5 USB6/7	Back Panel USB 3.2 Ports

Note: Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

LED Indicators

LED Indicators

LED	Description	Status
LED1	Onboard Power LED	Solid Green: Power On

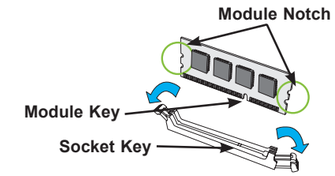
CPU and Memory Support

The X12SCV-W motherboard supports an Intel® Xeon and Core i9/i7/i5/i3 series processor in an LGA1200 socket.

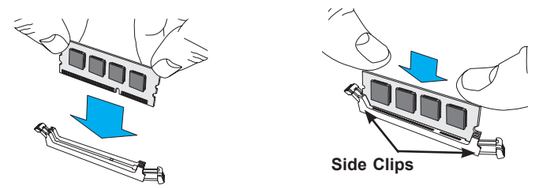
Note: The X12SCV-W does not support the Intel 10th/11th generation processor 2M cache SKUs. These processors will not boot with the latest BIOS version.

The motherboard supports up to 64GB of Non-ECC/ECC SODIMM memory with speeds of up to 2933MHz in two memory slots.

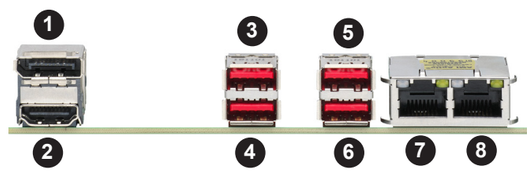
1. Insert SODIMM modules into slot DIMMA1 and then DIMMB1. Align the key on the bottom of the DIMM module against the receptive point on the memory slot. Take note of the notches on the side of the DIMM module and of the locking clips to avoid causing damage.



2. Install the SODIMM module straight down into the socket until it is securely seated in the socket. The side clips will automatically lock the module into place.



Back Panel I/O Connectors



#	Description	#	Description
1.	DisplayPort	5.	USB4 (3.2)
2.	HDMI 2.0	6.	USB5 (3.2)
3.	USB6 (3.2)	7.	LAN1
4.	USB7 (3.2)	8.	LAN2

Note: Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU/motherboard installation instructions.

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