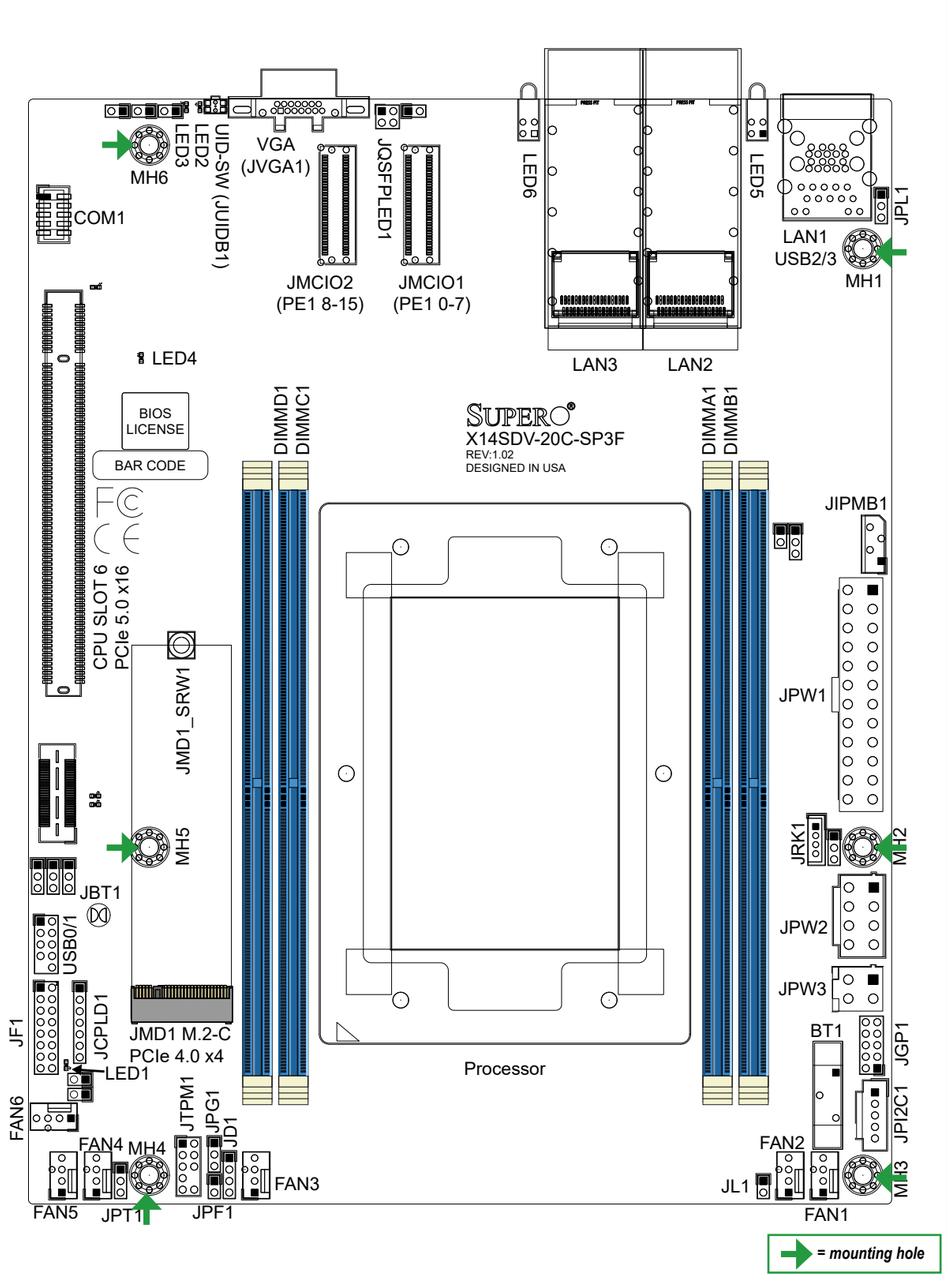
SUPERMICRO® X14SDV-20C/32C/36C/36CE/42C-SP3F Quick Reference Guide

Package Contents
- One Supermicro Motherboard
- One Quick Reference Guide
- One I/O Shield
- One COM Port Cable

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



Note: Graphics shown in this quick reference guide are for illustrative purposes 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	Onboard CMOS Clear	Open (Normal)
JPG1	VGA Enable/Disable	Pins 1–2 (Enabled)
JPL1	LAN1 Enable/Disable	Pins 1–2 (Enabled)
JPT1	Onboard TPM 2.0 Enable/Disable	Pins 1-2 (Enabled)

Connectors

Connector	Description
BT1	Onboard CMOS Battery
COM1	COM Header
CPU SLOT 6	PCIe 5.0 x16 Slot
FAN1–FAN6	Fan Headers
JD1	Internal Speaker/Buzzer Header
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JIPMB1	4-pin External BMC I²C Header
JMCIO1, JMCIO2	MCIO PCIe 5.0 x8 Connectors
JMD1	M.2 M-Key PCIe 4.0 x4 Slot
JPI²C1	Power Supply System Management Bus (SMBus) I²C Header
JPW1	24-pin ATX Power Connector
JPW2	8-pin +12 V DC Power Connector (Required for additional +12 V input power only or 24-pin ATX Power)
JPW3	4-pin +12 V DC Power Connector (Required for additional +12 V input power only or 24-pin ATX Power)
JQSFPLED1	LAN2/3 Activity LED
JRK1	Intel VROC RAID Key Header
JTPM1	TPM 2.0 Header
LAN1	Shared IPMI LAN Port (Shared with Gigabit Ethernet RJ45)
LAN2, LAN3	100 GbE QSFP28 Ports
USB0/1	USB 2.0 Header
USB2/3	USB 3.0 Type-A Ports

LED Indicators

LED	Description	Status
LED1	Onboard Power LED	Solid Green: Power On
LED2	UID LED	Solid Blue: Unit Identified
LED3	Overheat (OH)/Power Fail/Fan Fail LED	Open (Normal)
LED4	BMC Heartbeat LED	Blinking Green: BMC Normal

Note: Refer to the Component Installation section of the user manual for detailed information on jumpers, connectors, and LED indicators.

LED Indicators

LED3	Overheat (OH)/Power Fail/Fan Fail LED	Open (Normal)
LED4	BMC Heartbeat LED	Blinking Green: BMC Normal

Processor and Memory Support

Processor Support

The X14SDV-20C/32C/36C/36CE/42C-SP3F series motherboard supports the Intel® Xeon® 6 SoC series processors with a Thermal Design Power (TDP) of up to 235 W.

Memory Support

The motherboard supports up to 512 GB of DDR5 RDIMM memory with speeds of up to 6400 MT/s.

The motherboard supports DDR5 RDIMM memory with capacities of 16 GB, 24 GB, 32 GB, 48 GB, 64 GB, and 96 GB in 16 Gb and 24 Gb DRAM densities. The motherboard also supports 128 GB in 32 Gb DRAM densities.

Memory Population Sequences

Number of DIMMs	Memory Population Sequence (RDIMM)
1	DIMMA1
2	DIMMA1 / DIMMC1 DIMMB1 / DIMMD1
4	DIMMA1 / DIMMB1 / DIMMC1 / DIMMD1

Note: Refer to the Component Installation section of the user manual for detailed information on memory support and processor/motherboard installation instructions.

Front Control Panel (JF1)

		1	2	
PWR	Power Button	○	○	Ground
Reset	Reset Button	○	○	Ground
	+3.3 V	○	○	Power Fail LED
	UID LED	○	○	OH/Fan Fail LED
	+3.3 V Stby	○	○	NIC2 Activity LED
	+3.3 V Stby	○	○	NIC1 Activity LED
	+3.3 V Stby / UID SW	○	○	HDD LED
	+3.3 V Stby	○	○	PWR LED
		15	16	

I/O Ports

#	Description	#	Description	#	Description
1.	LAN1	5.	LAN2	9.	UID Button
2.	USB3	6.	LAN3		
3.	USB2	7.	LED6		
4.	LED5	8.	VGA		

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