

CONTACT INFORMATION

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FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:

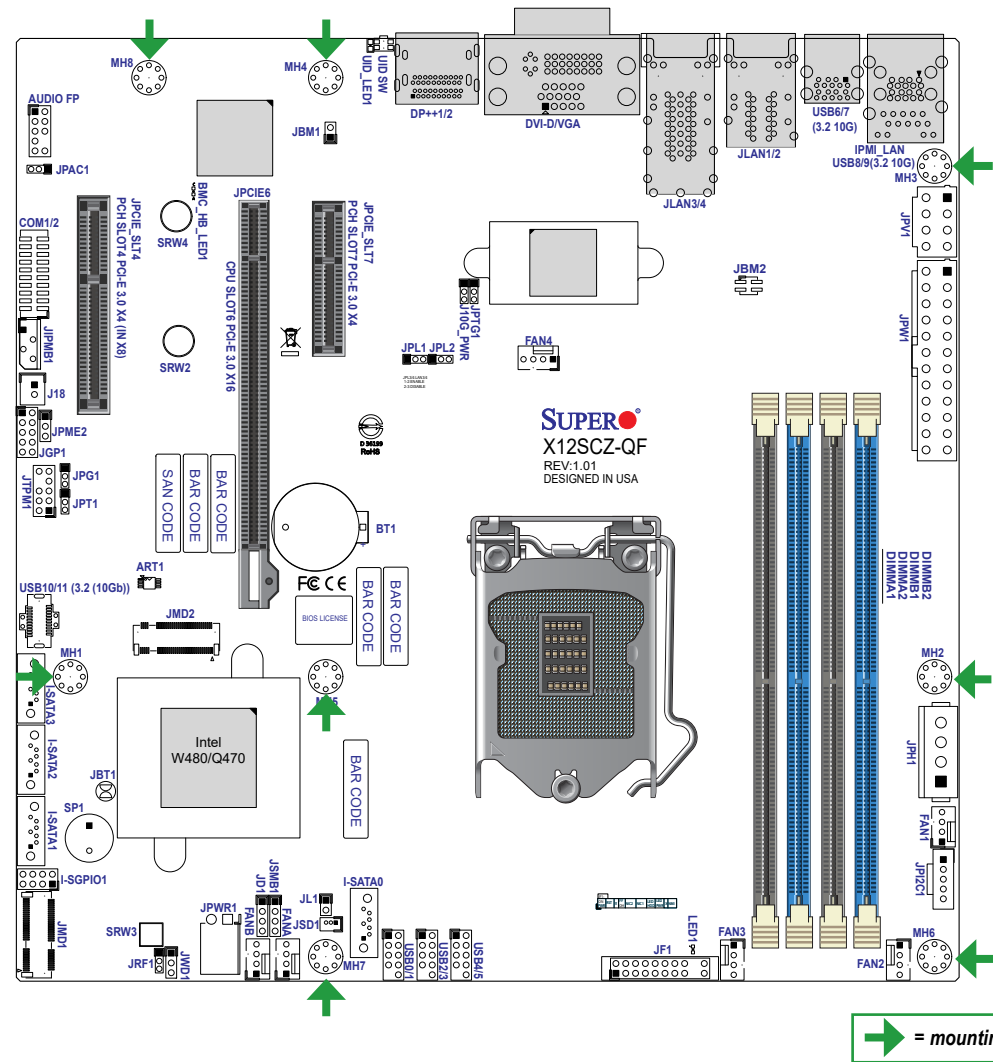
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: <https://www.supermicro.com/wdl/driver/>
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

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



Motherboard Layout and Features



Jumpers and Connectors

Jumpers		
Jumper	Description	Default (*)
J10G_PWR	LAN3/LAN4 Power Option	*Pins 1-2 Standby Power Pins 2-3 Normal Power
JBM1	IPMI Share LAN Feature	Pins 1-2 Open (Enabled)
JBM2	IPMI LAN Enable/Disable	*Pins 1-3 Short (Enabled) Pins 1-2 Short (Disabled)
JBT1	CMOS Clear	Open (Normal)
JPAC1	Front Panel Audio Enable/Disable	Pins 1-2 (Enabled)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPL1	LAN1 Enable/Disable	Pins 1-2 (Enabled)
JPL2	LAN2 Enable/Disable	Pins 1-2 (Enabled)
JPME2	Manufacturing Mode Select	Pins 1-2 (Normal)
JRF1	Slot6 PCIe Bifurcation Option	*Pins 1-2 (x16) Pins 2-3 (x8x8)
JPT1	Onboard TPM Module Enable/Disable	Pins 2-3 (Disabled)
JPTG1	LAN3/LAN4 Enable/Disable	Pins 1-2 (Enabled)
JWD1	Watch Dog Timer	Pins 1-2 (Reset)

Connectors	
Connector	Description
ART1	M.2 M-Key Temperature Sensor
AUDIO_FP	Front Panel Audio Header
BT1	Onboard Battery
COM1/2	COM Header (supports RS-232)
DP++1/2	DisplayPorts 1 and 2
DVI-D/VGA	DVI-D/VGA port
FAN1 - FAN4, FANA, FANB	System Fan Headers (FAN1: CPU Fan)
IPMI_LAN	Dedicated IPMI LAN Port
I-SATA0 - I-SATA3	Intel® PCH SATA 3.0 Ports (I-SATA0: SATA DOM)
I-SGPIO1	Serial Link General Purpose I/O Header
J18	Extended CMOS Battery Connector
JD1	Speaker Header (Pins 1-4: Speaker, Pins 3-4: Buzzer)
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JIPMB1	4-pin BMC External I ² C Header (for an IPMI card)
JL1	Chassis Intrusion Header
JLAN1/2	1G Base-T LAN Ports
JLAN3/4	10G Base-T LAN Ports
JMD1	M.2 E-Key 2230 (CNVi/CNV) Slot
JMD2	M.2 M-Key 2280/22110 Slot
JPCIE_SLT4	PCH PCIe 3.0 x4 (in x8 Slot)
JPCIE6	CPU PCIe 3.0 x16 Slot
JPCIE_SLT7	PCH PCIe 3.0 x4 Slot
JPH1	4-pin HDD Power Connector
JPI ² C1	Power System Management Bus (SMB) I ² C Header
JPV1	8-pin 12V DC Power Connector for CPU (Required) or alternative single power input for when the 24-pin ATX power is not in use
JPW1	24-pin ATX Power Connector

Connectors and LED Indicators

Connectors		
Jumper	Description	
JPWR1	4-pin 12V Power Connector for GPU card requiring extra 12V power (up to 75W)	
JSD1	SATA DOM Power Connector	
JSMB1	System Management Bus Header	
JTPM1	Trusted Platform Module/Port 80 Connector	
SP1	Internal Buzzer	
SRW2	M.2 Holding Screw for M-Key Type 2280	
SRW3	M.2 Holding Screw for E-Key Type 2230	
SRW4	M.2 Holding Screw for M-Key Type 22110	
UID SW	Unit Identifier Switch	
USB0/1, 2/3, 4/5	USB 2.0 Headers	
USB6/7, 8/9	Back Panel USB 3.2 (10Gb) Ports	
USB10/11	USB 3.2 (10Gb) Type-A Header	

LED Indicators		
LED	Description	Status
BMC_HB_LED1	BMC Heartbeat LED	Blinking Green: BMC Normal
UID_LED1	Unit Identifier (UID) LED	Solid Blue: Unit Identified
LED1	Power LED	Solid Green: Power On Blinking Green: S3 Status

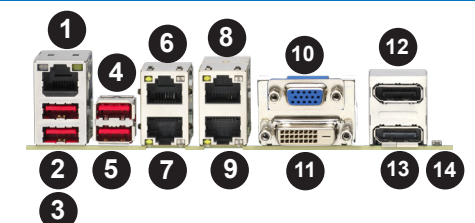
CPU Support

X12SCZ-TLN4F/F: Intel Xeon W-1200 series and 10th/11th Generation Core i9/i7/i5/i3 series processors in an LGA1200 socket.
 X12SCZ-QF: Intel 10th/11th Generation Core i9/i7/i5/i3 series, Pentium, and Celeron processor in an LGA1200 socket.
Note: The X12SCZ motherboard series does not support the Intel 10th/11th generation processor 2M cache SKUs. These processors will not boot with the latest BIOS version.

Memory Support

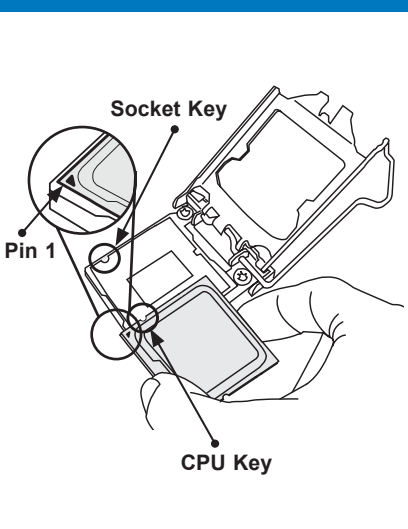
The X12SCZ-TLN4F/F supports up to 128GB of DDR4 ECC/Non-ECC UDIMM memory while X12SCZ-QF supports up to 128GB of DDR4 Non-ECC UDIMM memory with speeds of up to 2933 MHz in four memory slots. Populating these DIMM slots with a pair of memory modules of the same type and size will result in interleaved memory, which will improve memory performance.
 Insert the desired number of DIMMs into the memory slots, starting with DIMMA2, DIMMB2, then DIMMA1, DIMMB1.

Back Panel I/O Connectors

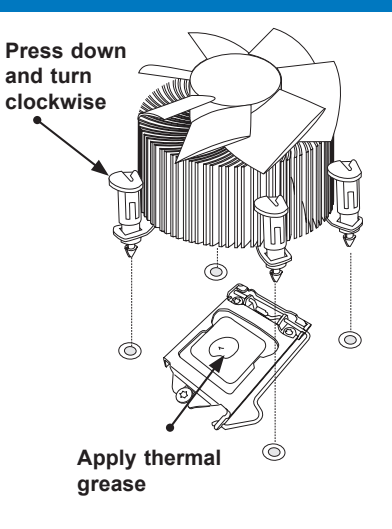


#	Description	#	Description	#	Description	#	Description
1.	IPMI LAN	5.	USB6 (3.2)	9	LAN3	13	DisplayPort 1
2.	USB9 (3.2)	6.	LAN2	10	VGA	14	UID Switch
3.	USB8 (3.2)	7.	LAN1	11	DVI-D		
4.	USB7 (3.2)	8.	LAN4	12	DisplayPort 2		

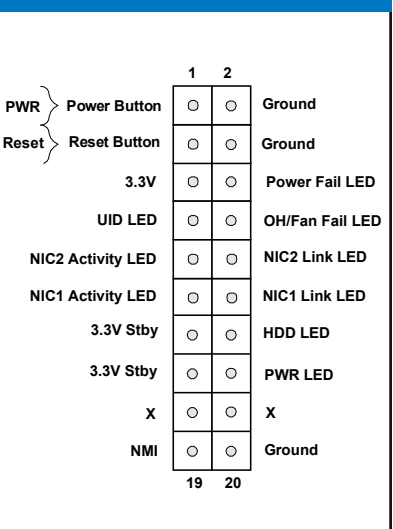
CPU Installation



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.

Note: Refer to Chapter 2 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

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