

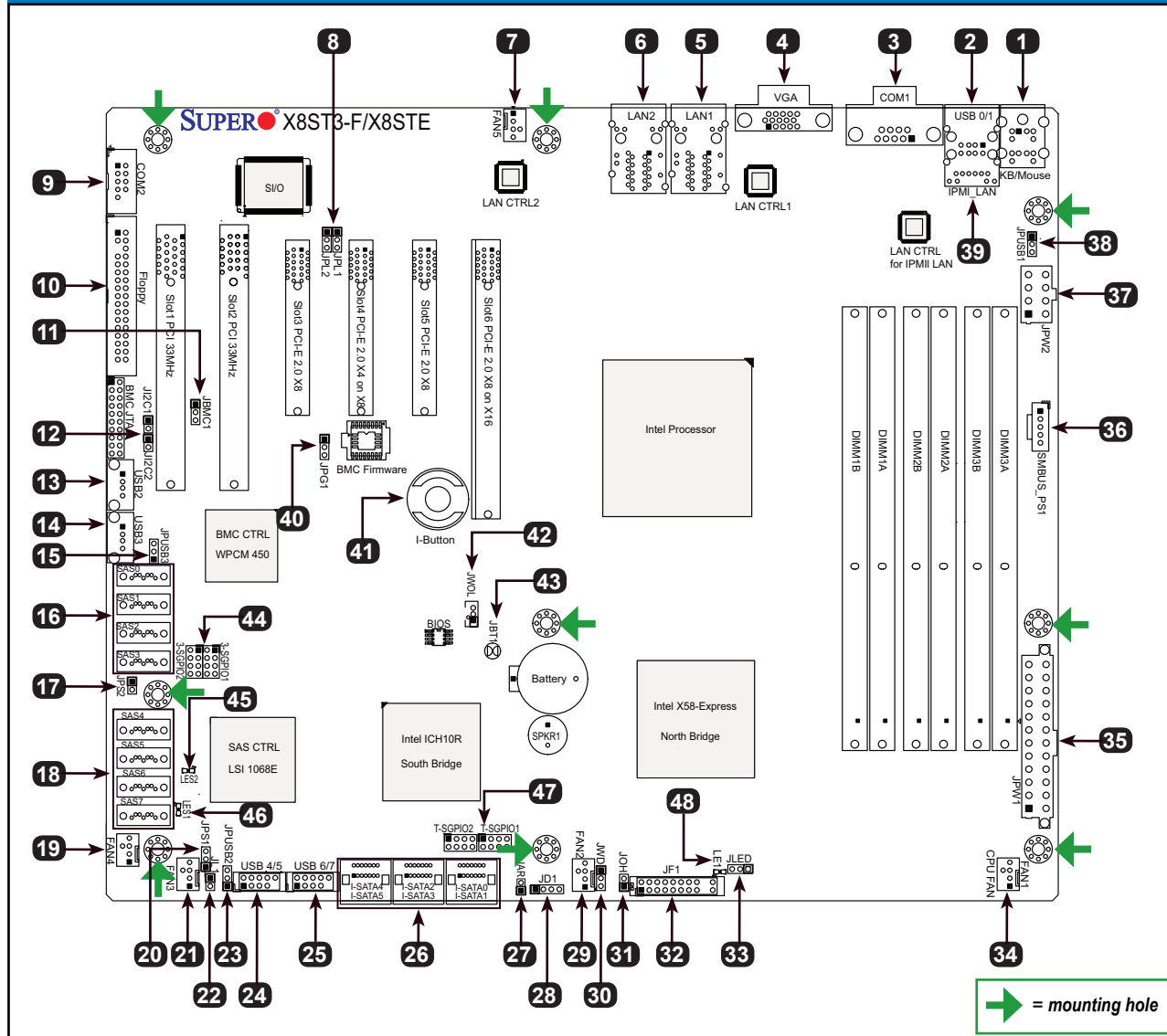
CONTACT INFORMATION

- www.supermicro.com (Email: support@supermicro.com)
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: <ftp://ftp.supermicro.com>
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS (Applies to individual-pack only)

- One (1) Supermicro Motherboard
- Six (6) SATA Cables
- One (1) Floppy Drive Ribbon Cable
- One (1) I/O Shield
- One (1) Quick Reference Guide

Motherboard Layout and Features



Jumpers, Connectors and LED Indicators

Jumpers

Item #	Jumper	Description	Default
8	JPL1/JPL2	LAN 1/2 Enable	Pins 1-2 (Enabled)
11	JBMC1	BMC Enable	Pins 1-2 (Enabled)
12	J12C1/J12C2	SMB to PCI Slots	See Chpt. 2 in User Manual
15	JPUSB3	FP USB 2, 3 Wake-up	Pins 1-2 (Enabled)
17	JPS2	SAS RAID Mode (X8ST3-F only)	On (Software RAID)
20	JPS1	SAS Enable (X8ST3-F only)	Pins 1-2 (Enabled)
23	JPUSB2	FP USB 4/5, 6/7 Wake-up	Pins 1-2 (Enabled)
30	JWD	Watch Dog Timer Enable	Pins 1-2 (Reset)
38	JPUSB1	BP USB0/1 Wake-up	Pins 1-2 (Enabled)
40	JPG1	VGA Enable	Pins 1-2 (Enabled)
43	JBT1	CMOS Clear	See Chpt. 2 in User Manual

Connectors

Item #	Connector	Description
1	KB/Mouse	Keyboard and Mouse Connectors
2	USB 0/1	(Backpanel) Universal Serial Bus (USB) ports
3, 9	COM1, COM2	COM Port 1/COM Port 2 Serial Connection Header
4	VGA	Video Port
5, 6	LAN1, LAN2	Gigabit Ethernet (RJ45) Ports
7, 19, 21, 29, 34	Fan5, Fan4, Fan3, Fan2, Fan1	System/CPU Fan Headers (Fan 1: CPU Fan)
10	Floppy	Floppy Disk Drive Connector
13, 14, 24, 25	USB 2, 3, 4/5, 6/7	Front Panel Accessible USB Headers
16, 18	SAS 0~3, 4~7	Serial Attached SCSI Ports (X8ST3-F only)
22	JL1	Chassis Intrusion Header
26	I-SATA 0~5	Serial ATA Ports
27	JAR	Alarm Reset
28	JD1	Speaker Header (Pins 3/4: Internal)
31	JOH	Overheat LED Header
32	JF1	Front Panel Control Header
33	JLED	Power LED Indicator Header
35	JPW1	24-pin ATX Main Power Connector (required)
36	SMB_PS1	PWR Supply (I ² C) System Management Bus
37	JPW2	+12V 8-pin CPU Power Connector (required)
39	IPMI_LAN	IPMI Dedicated LAN (X8ST3-F only)
42	JWOL	Wake-On-LAN Header
44	3-SGPIO-1/2	Serial link IO Headers for SAS (X8ST3-F only)
47	T-SGPIO-1/2	Serial General Purpose IO Headers (for SATA)

LED Indicators

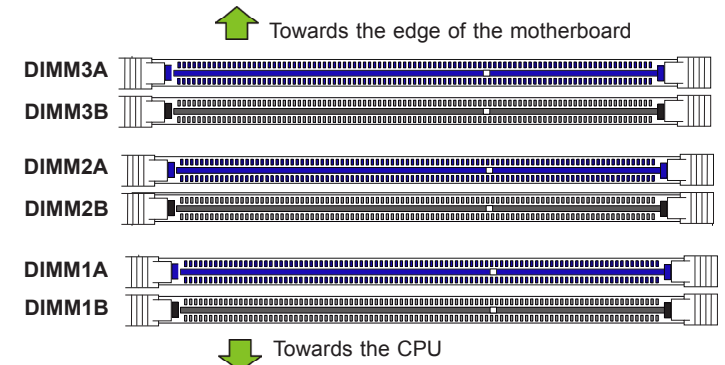
Item #	LED	Description	Color/State	Status
45	LES2	SAS Heartbeat LED (X8ST3-F only)	Green: Blinking	SAS: Normal
46	LES1	SAS Activity (X8ST3-F only)	Green: Blinking	SAS Active
48	LE1	Onboard Standby PWR LED	Green: Solid on	PWR On

Memory Support

This motherboard supports up to 24 GB of Unbuffered (UDIMM) DDR3 ECC or Non-ECC 800/1066/1333 MHz memory in 6 memory slots.

Note: For memory optimization, use only DIMM modules that have been validated by Supermicro. For the latest memory updates, please refer to our website at <http://www.supermicro.com/products/motherboard>.

DIMM Installation



Memory Population Guidelines

Please follow the tables below when populating the memory slots.

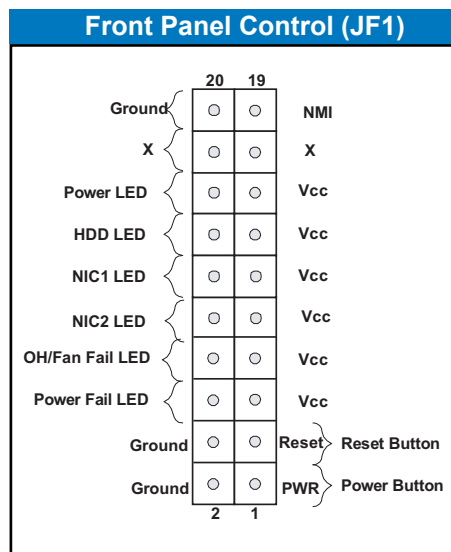
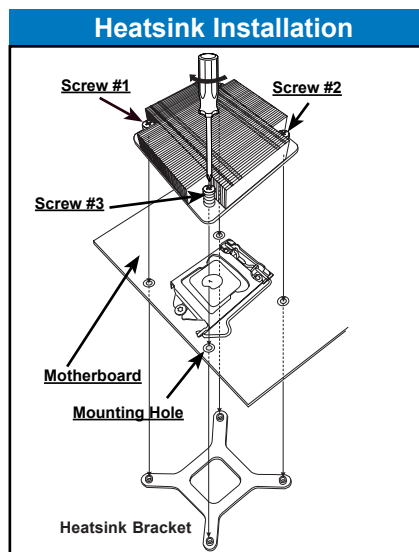
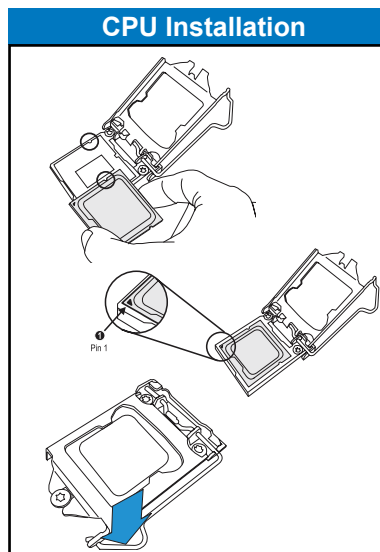
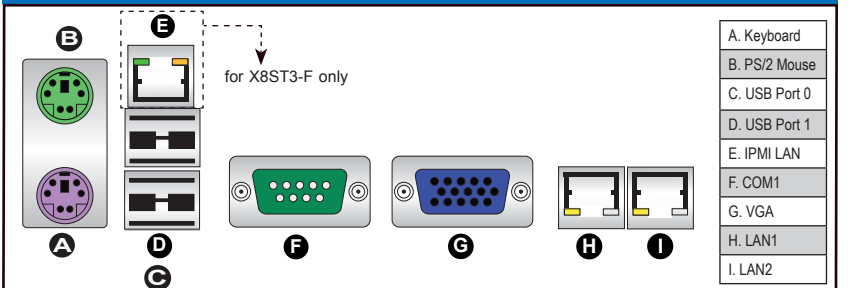
Memory Population (UDIMM Only Routing)				
DIMM Slots per Channel	DIMMs Populated per Channel	DIMM Type	POR Speeds (in MHz)	Ranks per DIMM (any combination; SR=Single Rank, DR=Dual Rank)
2	1	Unbuffered DDR3 (with or without ECC)	800,1066,1333	SR, DR
2	2	Unbuffered DDR3 (with or without ECC)	800,1066	SR, DR

Population Rules: Any combination of x8 and x16 UDIMMs, with 1Gb or 2Gb DRAM density.

Memory Population (UDIMM 3 DIMMs per Channel Routing)				
DIMM Slots per Channel	DIMMs Populated per Channel	DIMM Type	POR Speeds (in MHz)	Ranks per DIMM (any combination; SR=Single Rank, DR=Dual Rank)
3	1	Unbuffered DDR3 (with or without ECC)	800,1066,1333	SR, DR
3	2	Unbuffered DDR3 (with or without ECC)	800,1066	SR, DR

Population Rules: Any combination of x8 UDIMMs, with 1Gb or 2Gb DRAM density.

Back Panel IO Connectors



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 1 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.