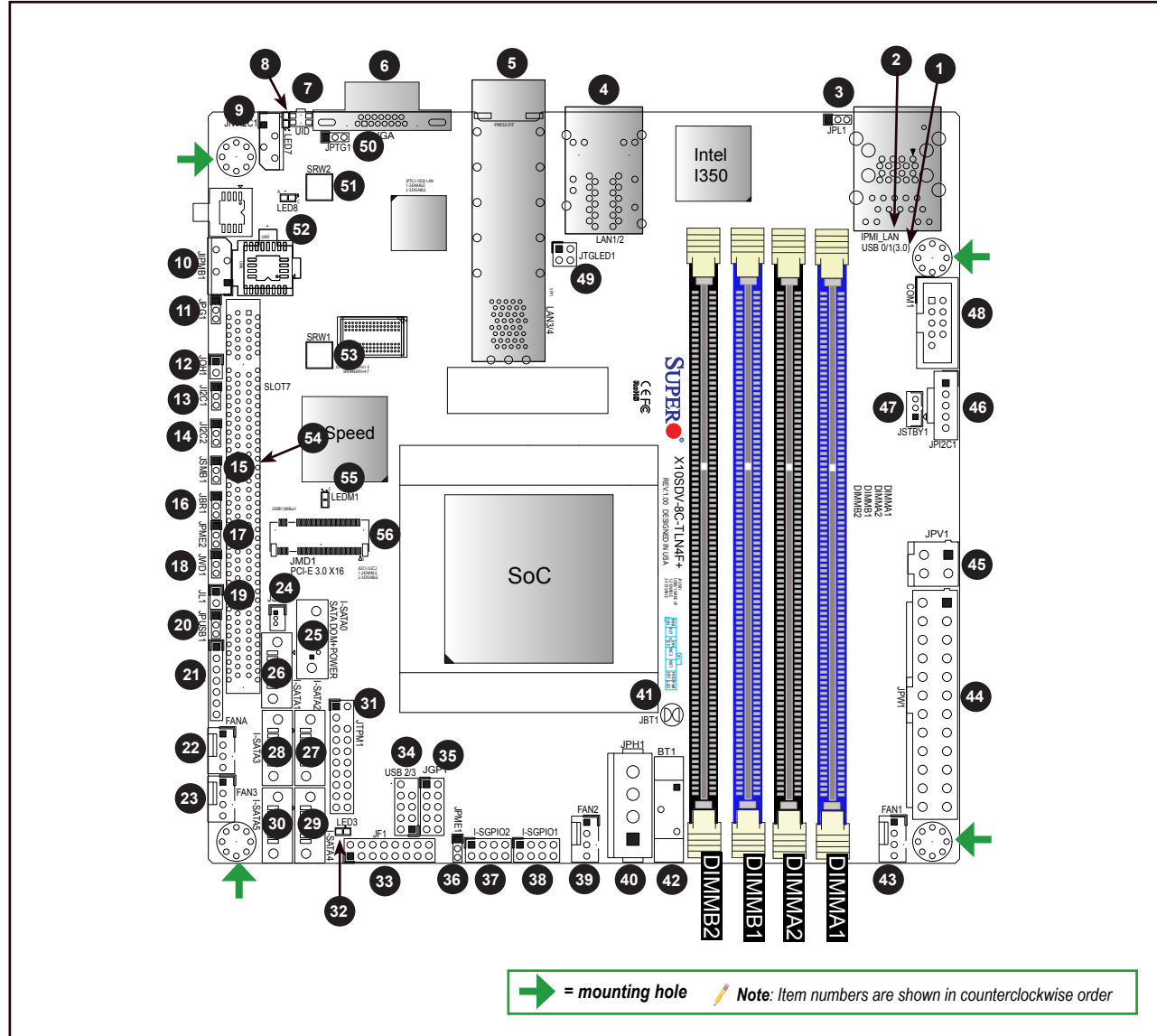
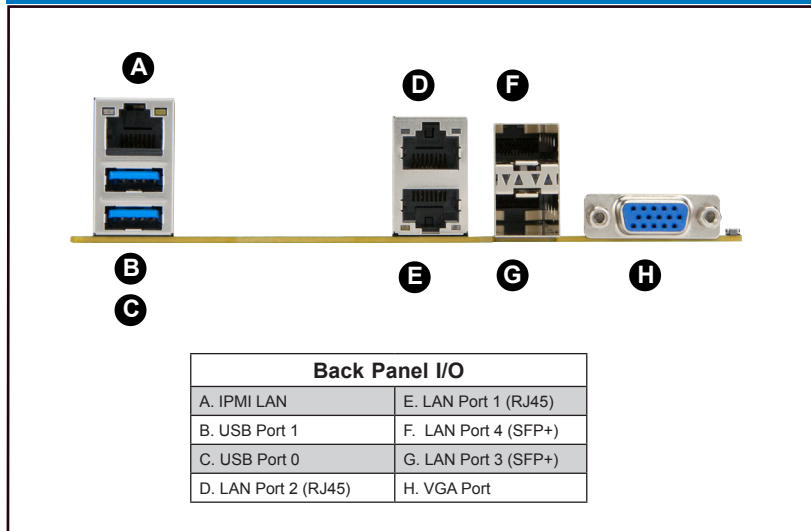


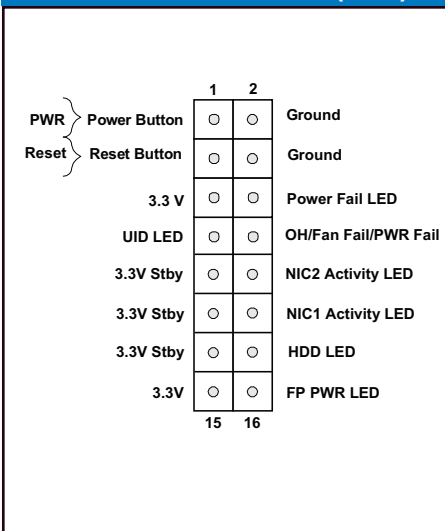
Motherboard Layout and Features



Back Panel I/O Connectors



Front Panel Control (JF1)



Jumpers and Connectors

Jumpers			
Item #	Jumper	Description	Default
16	JBR1	BIOS Recovery	Pins 1-2 (Normal)
41	JBT1	CMOS Clear	Open: Normal, Short: Clear CMOS
13, 14	JPC1/JPC2	SMB to PCI-E Slots	Pins 2-3 (Disabled)
11	JPG1	VGA Enable	Pins 1-2 (Enabled)
3	JPL1	LAN1/LAN2 Enable	Pins 1-2 (Enabled)
36	JPME1	ME Recovery	Pins 1-2 (Normal)
17	JPME2	Manufacturing Mode	Pins 1-2 (Normal)
50	JPTG1	LAN3/LAN4 Enable	Pins 1-2 (Enabled)
20	JPSUB1	USB Wakeup	Pins 1-2 (Enabled) (For USB0/1 Only)
18	JWD1	Watch Dog Enable	Pins 1-2 (Reset)

Connectors		
Item #	Connector	Description
42	BT1	Onboard Battery
48	COM1	COM1 Header
22, 43, 39, 23	FANA, FAN1 ~ FAN3	CPU/System Cooling Fans
2	IPMI LAN	Dedicated IPMI LAN Port
25 ~ 30	I-SATA0 ~ I-SATA5	Intel® Serial ATA Ports (I-SATA0 supports SuperDOM)
38, 37	I-SGPIIO1, I-SGPIIO2	Serial Link General Purpose I/O Headers
35	JGP1	General Purpose I/O Header
21	JD1	Speaker/Buzzer (Pins 1-3: Power LED, Pins 4-7: Speaker)
33	JF1	Front Panel Control Header
10	JIPMB1	4-pin External SMBus I ² C Header (for an IPMI Card)
19	JL1	Chassis Intrusion Header
56	JMD1	M.2 PCIE 3.0 x4 Socket
9	JNV ² C1	NVMe I ² C Header
12	JOH1	Overheat LED Header
40	JPH1	4-pin Power Connector for HDD use (To provide power from the motherboard to onboard HDD devices.)
46	JPI ² C1	Power Supply SMBus I ² C Header
45	JPV1	4-pin 12V DC Power Connector (To provide alternative power for special enclosure when the 24-pin ATX power is not in use.)
44	JPW1	24-pin ATX Main Power connector
24	JSD1	SATA DOM (Device On Module) Power Connector
15	JSMB1	SMBus Header
47	JSTBY1	Standby Power Header
49	JTGLLED1	LAN3/LAN4 Activity LED Header
31	JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
4	LAN1, LAN2	Gigabit Ethernet (RJ45) Ports
5	LAN3, LAN4	10G Ethernet (SFP+) Ports
54	SLOT7	PCI-E 3.0 X16 Slot
53, 51	SRW1, SRW2	M.2 Holding Screws
7	UID	Unit Identifier Button
1	USB0/1	Back panel USB 3.0 Ports
34	USB2/3	Front Access USB 2.0 Header
6	VGA	Back panel VGA Port

LED Indicators

LED Indicators				
Item #	LED	Description	Color/State	Status
55	LEDM1	BMC Heartbeat LED	Green: Blinking	BMC: Normal
32	LED3	Power LED	Green: On	System Power On
8	LED7	UID Switch LED	Blue: On	Unit Identified
52	LED8	Overheat/PWR Fail/Fan Fail LED	Red: Solid on/ Blinking	Solid On: Overheat, Blinking: PWR Fail or Fan Fail

CPU Support

Intel® SoC Xeon D-1500 Series BGA.

Memory Support

This motherboard supports up to 128GB of DDR4 ECC RDIMM or 64GB of DDR4 ECC/Non-ECC UDIMM in four memory slots.

Note: Check the Supermicro website for recommended memory modules.

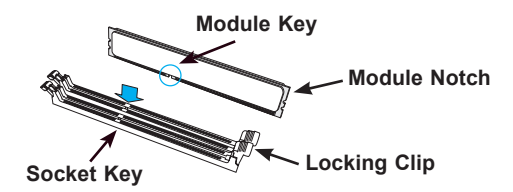
DIMM Memory Installation

When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1, DIMMB1, then DIMMA2, DIMMB2.

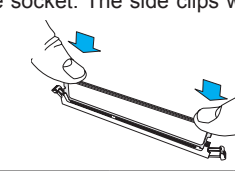
Always use DDR4 DIMM modules of the same size, type and speed. The motherboard will support one DIMM module installed. However, for best memory performance, install DIMM modules in pairs.

Installing DIMM Memory Modules

1. Align the key on the bottom of the DIMM module against the key on the memory slot. Take note of the notches on the side of the DIMM module, and of the locking clips on the socket to avoid causing damage.



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



Recommended Population (Balanced)				
DIMMA1	DIMMB1	DIMMA2	DIMMB2	Total System Memory
4GB	4GB			8GB
4GB	4GB	4GB	4GB	16GB
8GB	8GB			16GB
8GB	8GB	8GB	8GB	32GB
16GB	16GB			32GB
16GB	16GB	16GB	16GB	64GB
32GB	32GB			64GB
32GB	32GB	32GB	32GB	128GB

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.