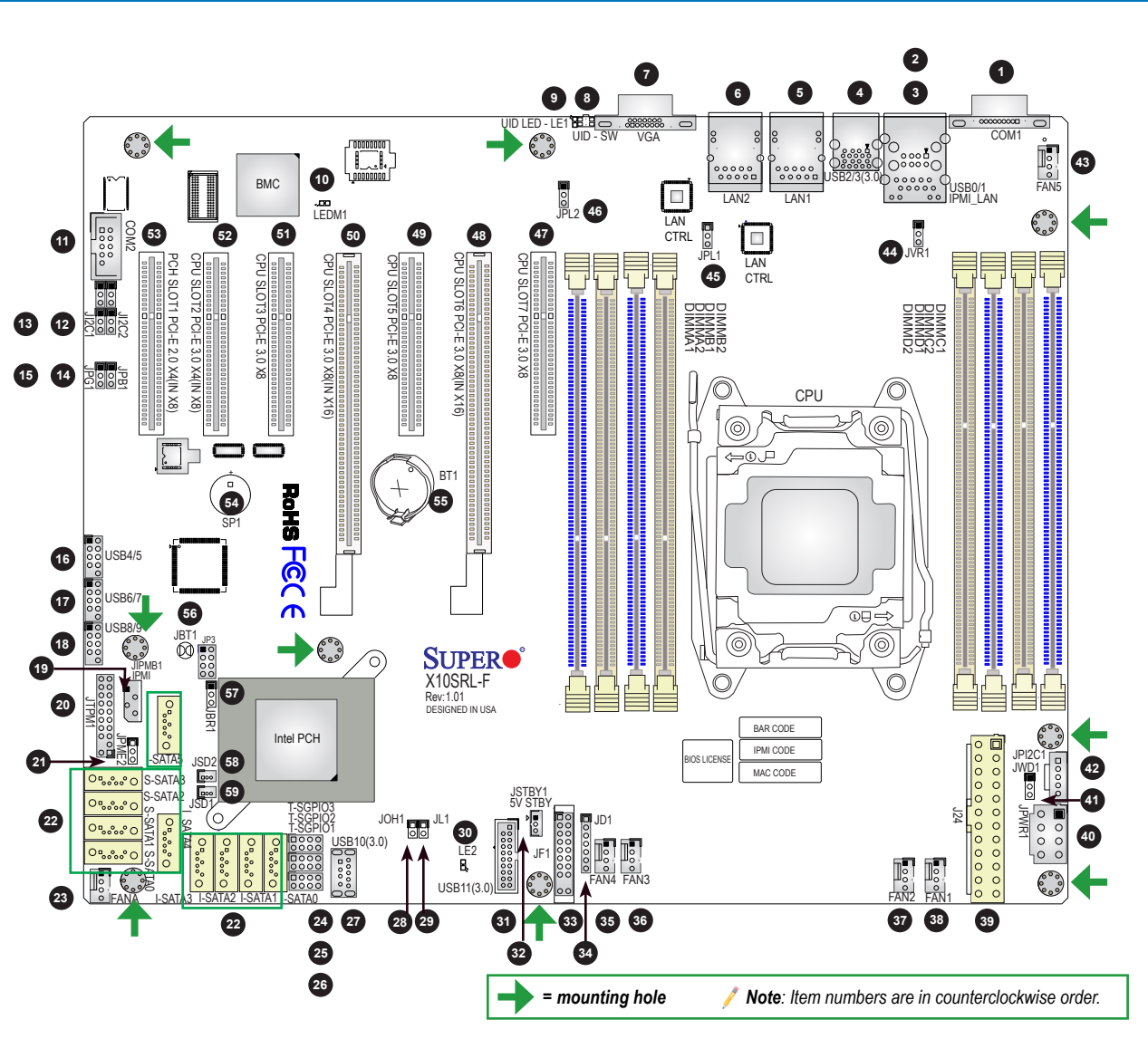
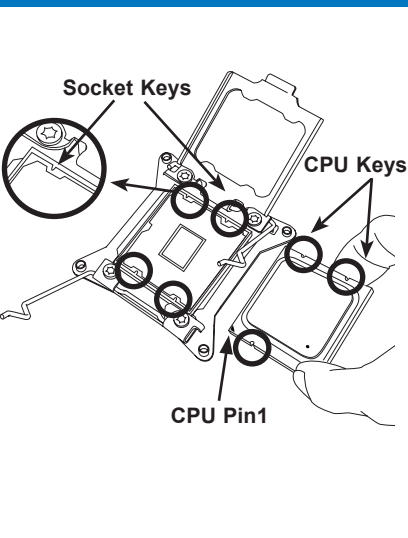


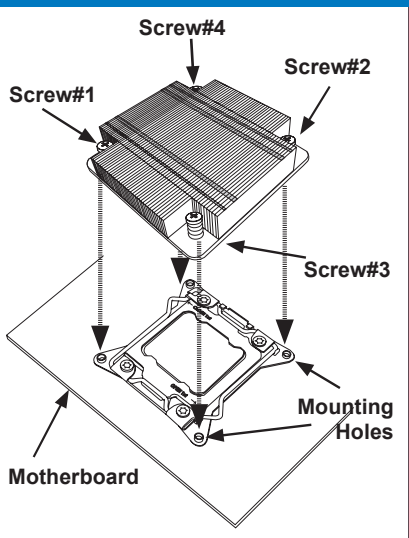
Motherboard Layout and Features



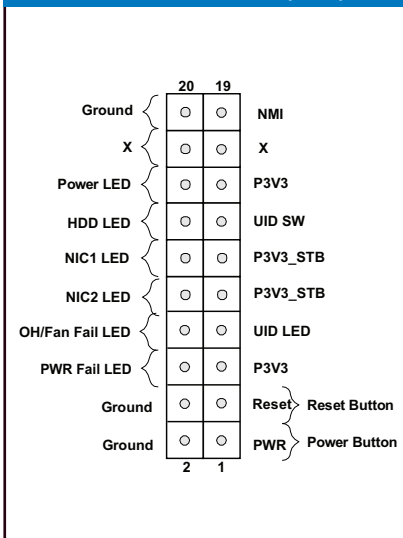
CPU Installation



Heatsink Installation



Front Control Panel (JF1)



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, Connectors and LED Indicators

Jumpers			
Jumper	Item #	Description	Default
JBR1	57	BIOS Recovery	Pins 1-2 (Normal)
JBT1	56	CMOS Clear	Short: Clear CMOS, Open: Normal
J1PC1/J1PC2	13, 12	SMB to PCI-E Slots	Pins 2-3 (Disabled)
JPB1	14	BMC Enable/Disable	Pins 1-2 (Enabled)
JPG1	15	VGA Enable	Pins 1-2 (Enabled)
JPL1/JPL2	45, 46	LAN1/LAN2 Enable	Pins 1-2 (Enabled)
JPME2	21	Manufacture Mode Select	Pins 1-2 (Normal)
JWD1	41	Watch Dog Enable	Pins 1-2 (Reset)

Connectors		
Connector	Item #	Description
Battery (BT1)	55	Onboard Battery
COM1/COM2	1, 11	COM1 (Port)/COM2 (Header)
FAN1 - FAN5, FANA	38,37,36,35,43,23	System/CPU Fan Headers
J24	39	24-pin Main ATX Power Connector
JD1	34	PWR LED/Speaker (Pins 1-3: Power LED, Pins 4-7: Speaker)
JF1	33	Front Control Panel Header
JIPMB1	19	4-pin External BMC I ² C Header (for an IPMI Card)
JL1	29	Chassis Intrusion Header
JOH1	28	Overheat/Fan Fail Indicator
JPI ² C1	42	Power SMB (System Management Bus)
JPWR1	40	8-pin Secondary Power Connector
JSD1/JSD2	59, 58	SATA DOM (Device On Module) Power Connector
JSTBY1	32	Standby Power Header
JTPM1	20	Trusted Platform Module/Port 80 Connector
JVR1	44	PWM SMB Programming (for debugging only)
LAN1/LAN2	5, 6	Gigabit (RJ45) Ports
IPMI_LAN	3	Dedicated IPMI LAN
I-SATA 0-9	22	(Intel PCH) Serial ATA (SATA 3.0) Ports (6Gb/sec)
(PCH) Slot 1	53	PCI-Express 2.0 (x4 in x8 Slot)
(CPU) Slots 2-7	52, 51, 50, 49, 48, 47	Six (6) PCI-Express 3.0 slots: 2 (x8 in x16), 2 (x8), 1 (x8//x4), 1 (x0//x4)
SP1	54	Internal Speaker/Buzzer
T-SGPIO 1/2/3	26, 25, 24	Serial Link General Purpose I/O Headers (5V Gen1/Gen2)
UID SW	8	Unit Identifier Switch
USB 0/1	2	Back panel USB 2.0 Ports
USB 2/3	4	Back panel USB 3.0 Ports
USB 4/5, 6/7, 8/9	16, 17, 18	Front Panel Accessible USB 2.0 Headers
USB 10, 11 (3.0)	27, 31	Front Panel Accessible USB 3.0 Ports
VGA	7	Back panel VGA Port

LED Indicators				
LED	Item #	Description	State/Color	Status
LE1	9	UID LED	Blue: On	Unit Identified
LE2	30	Onboard PWR LED	Green: On	System Power On
LEDM1	10	BMC Heartbeat LED	Green: Blinking	BMC Normal

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

CPU Support

The X10SRL-F supports an Intel® E5-2600/1600 v3/v4 series processor in an LGA2011 R3 socket.

Memory Support

The X10SRL-F supports eight ECC DDR4 RDIMM/LRDIMM at 2400 MT/s (max.) memory (1 DPC) up to 256GB RDIMM or 512GB LRDIMM. Populating these DIMM modules with a pair of memory modules of the same type and size will result in interleaved memory, which will improve memory performance.

Populating RDIMM/LRDIMM DDR4 Memory Modules for the E5-2600v3-based Motherboard

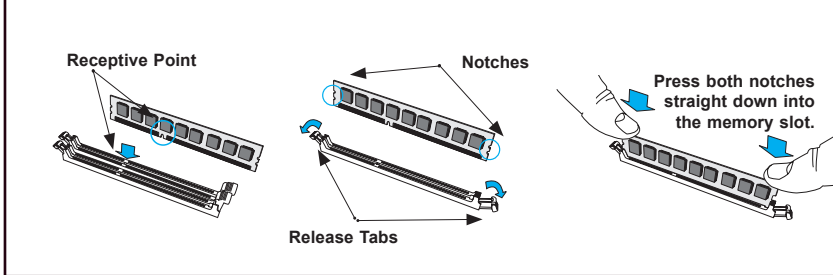
Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V): Slot Per Channel (SPC) and DIMM Per Channel (DPC)		
		4Gb	8Gb	1 Slot Per Channel		
				1DPC	1DPC	2DPC
RDIMM	SRx4	8GB	16GB	2133	2133	1866
RDIMM	SRx8	4GB	8GB	2133	2133	1866
RDIMM	DRx8	8GB	16GB	2133	2133	1866
RDIMM	DRx4	16GB	32GB	2133	2133	1866
LRDIMM	QRx4	32GB	64GB	2133	2133	2133
LRDIMM 3DS ¹	8Rx4	64GB	128GB	2133	2133	2133

Populating RDIMM/LRDIMM DDR4 Memory Modules for the E5-2600v4-based Motherboard

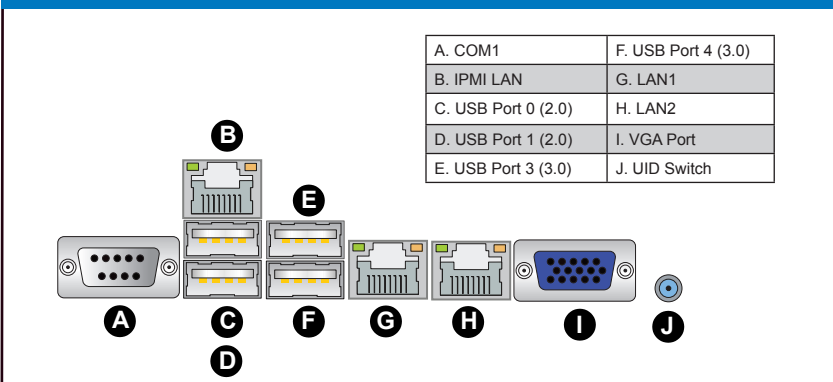
Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V): Slot Per Channel (SPC) and DIMM Per Channel (DPC)		
		4Gb	8Gb	1 Slot Per Channel		
				1DPC	1DPC	2DPC
RDIMM	SRx4	8GB	16GB	2400	2400	2133
RDIMM	SRx8	4GB	8GB	2400	2400	2133
RDIMM	DRx8	8GB	16GB	2400	2400	2133
RDIMM	DRx4	16GB	32GB	2400	2400	2133
LRDIMM	QRx4	32GB	64GB	2400	2400	2400
LRDIMM 3DS	8Rx4	64GB	128GB	2400	2400	2400

DIMM Memory Installation

Insert the desired number of DIMMs into the memory slots, starting with DIMMA1 (Channel A, Slot 1).



Back Panel I/O Connectors



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