CONTACT INFORMATION

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- General Information: marketing@supermicro.com
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 Phone: +1 (408) 503-8000, Fax: +1 (408) 503-8008

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

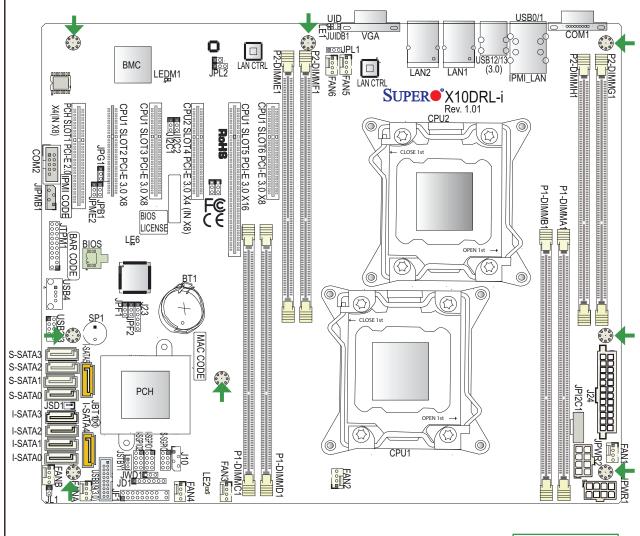
- Manuals: http://www.supermicro.com/support/manuals/
- Drivers & Utilities: http://www.supermicro.com/wftp
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

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

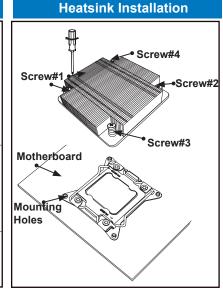


Motherboard Layout and Features



= mounting hole

CPU Installation Socket Keys CPU Pin1 **CPU Keys**



Front Control Panel (JF1)					
-	20	19	,		
Ground	0	0	NMI		
x {	0	0	х		
FP PWRLED <	0	0	3.3 V		
HDD LED	0	0	UID Switch		
NIC1 Link LED	0	0	NIC1 Activity LED		
NIC2 Link LED	0	0	NIC2 Activity LED		
OH/Fan Fail/ PWR Fail LED)	0	0	UID LED		
Power Fail LED	0	0	3.3V		
Ground	0	0	Reset Button		
Ground	0	0	PWR Power Button		
	2	1	·		

Jumpers, Connectors, and LED Indicators

JumperDescriptionDefault SettingJBT1Clear Onboard CMOS BatterySee Chapter 2JI²C1/ JI²C2SMB to PCI-E SlotsPins 2-3 (Disabled)JPB1BMC EnablePins 1-2 (Enabled)JPG1VGA EnablePins 1-2 (Enabled)JPL1/JPL2GLAN1/GLAN2 EnablePins 1-2 (Enabled)
JI ² C1/ JI ² C2 SMB to PCI-E Slots Pins 2-3 (Disabled) JPB1 BMC Enable Pins 1-2 (Enabled) JPG1 VGA Enable Pins 1-2 (Enabled)
JPB1 BMC Enable Pins 1-2 (Enabled) JPG1 VGA Enable Pins 1-2 (Enabled)
JPG1 VGA Enable Pins 1-2 (Enabled)
JPL1/JPL2 GLAN1/GLAN2 Enable Pins 1-2 (Enabled)
JPME2 ME Manufacturing Mode Select Pins 1-2 (Normal)
JWD1 Watch Dog Timer Enable Pins 1-2 (Reset)

Connectors Description BT1 Onboard Battery (See Chpt. 3 for Used Battery Disposal) COM1/COM2 Back_panel COM Port1/Front Accessible COM2 Header Fan1-6, FanA/B CPU/System Fan Headers J24 24-pin ATX Main Power Connector (See Warning on Pg. 1-6.) JD1 Speaker/Power LED JF1 Front Control Panel Header JJPMB1 4-pin External BMC PC Header (for an IPMI Card) JL1 Chassis Intrusion JJPFC1 Power Supply SMBbus PC Header JJPWR1/JPWR2 12V 8-Pin Power Connectors (See Warning on Pg. 1-6.) JSD1 SATA DOM (Device on Module) Power Connector JSTBY1 Standby Power Connector JJTPM1 TPM (Trusted Platform Module)/Port 80 Header JJJIDB1 UID (Unit Identification) Button LAN1/LAN2 G-bit Ethernet (GLAN) Ports 1/2 IPMI_LAN IPMI_Dedicated LAN support by the Aspeed Controller I-SATA 0-5 SATA 3.0 Connectors supported by Intel PCH (I-SATA 0-5) S-SATA 0-3 SATA 3.0 Connectors supported by Intel PCH (I-SATA 0-3) (PCH) Slot1 PCI-Express 3.0 x8 Slot from CPU1 (CPU1) Slot2 PCI-Express 3.0 x8 Slot from CPU1 (CPU1) Slot5 PCI-Express 3.0 x8 Slot from CPU1 (CPU1) Slot6 PCI-Express 3.0 x8 Slot from CPU1 (CPU3) Slot6 PCI-Express 3.0 x8 Slot from CPU3 (CPU3) Slot7 PCI-Express 3.0 x8 Slot from CPU3 (CPU3) Slot8 PCI-Express 3.0 x8 S	JPME2	ME Manufacturing Mode Select	Pins 1-2 (Normal)			
Connectors BT1 Onboard Battery (See Chpt. 3 for Used Battery Disposal) COMI/COM2 Back_panel COM Port1/Front Accessible COM2 Header Fan1-6, FanA/B CPU/System Fan Headers J24 24-pin ATX Main Power Connector (See Warning on Pg. 1-6.) JD1 Speaker/Power LED JF1 Front Control Panel Header JJPMB1 4-pin External BMC IPC Header (for an IPMI Card) JL1 Chassis Intrusion JPPC1 Power Supply SMBbus PC Header JPWR1/JPWR2 12V 8-Pin Power Connectors (See Warning on Pg. 1-6.) JSD1 SATA DOM (Device on Module) Power Connector JSTBY1 Standby Power Connector JTPM1 TPM (Trusted Platform Module)/Port 80 Header JUIDB1 UID (Unit Identification) Button LAN1/LAN2 G-bit Ethernet (GLAN) Ports 1/2 IPMI_LAN IPMI_Dedicated LAN support by the Aspeed Controller I-SATA 0-5 SATA 3.0 Connectors supported by Intel PCH (I-SATA 0-5) S-SATA 0-3 SATA 3.0 Connectors supported by Intel PCH (I-SATA 0-3) (PCH) Slot1 PCI-Express 2.0 x4 in x8 Slot from CPU1 (CPU1) Slot2 PCI-Express 3.0 x8 Slot from CPU1 (CPU1) Slot3 PCI-Express 3.0 x8 Slot from CPU1 (CPU1) Slot5 PCI-Express 3.0 x8 Slot from CPU1 (CPU1) Slot6 PCI-Express 3.0 x8 Slot from CPU1 I-SGPIO1/2 Seria_Link General Purpose I/O Headers 1/2 (I-SGPIO1 for I-SATAO-3, I-SGPIO2 for I-SATAO+3) SP1 Internal Speaker/Buzzer (BP) USB 1/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 1/2 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 4 Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port	JWD1	Watch Dog Timer Enable	Pins 1-2 (Reset)			
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JIPMB1 4-pin External BMC I ² C Header (for an IPMI Card) JL1 Chassis Intrusion JPI ² C1 Power Supply SMBbus I ² C Header JPWR1/JPWR2 12V 8-Pin Power Connectors (See Warning on Pg. 1-6.) JSD1 SATA DOM (Device on Module) Power Connector JSTBY1 Standby Power Connector JTPM1 TPM (Trusted Platform Module)/Port 80 Header JJIDB1 UID (Unit Identification) Button LAN1/LAN2 G-bit Ethernet (GLAN) Ports 1/2 IPMI_LAN IPMI_Dedicated LAN support by the Aspeed Controller I-SATA 0-5 SATA 3.0 Connectors supported by Intel PCH (I-SATA 0-5) S-SATA 0-3 SATA 3.0 Connectors supported by Intel SCU (S-SATA 0-3) (PCH) Slot1 PCI-Express 2.0 x4 in x8 Slot from Intel PCH (CPU1) Slot2 PCI-Express 3.0 x8 Slot from CPU1 (CPU2) Slot4 PCI-Express 3.0 x4 in x8 Slot from CPU1 (CPU2) Slot4 PCI-Express 3.0 x4 in x8 Slot from CPU1 (CPU1) Slot5 PCI-Express 3.0 x4 in x8 Slot from CPU1 (CPU1) Slot6 PCI-Express 3.0 x8 Slot from CPU1 I-SGPIO1/2 Seria_Link General Purpose I/O Headers 1/2 (I-SGPIO1 for I-SATAO-3, I-SGPIO2 for I-SATA4/5) S-SGPIO Seria_Link General Purpose I/O Header (for S-SATAO-3) SP1 Internal Speaker/Buzzer (BP) USB 0/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 12/13 (3.0) Backpanel USB 2.0 Ports 0/1 (FP) USB 2/3 Front-Accessible USB 3.0 Connection Header 2/3 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port	JD1	Speaker/Power LED	Speaker/Power LED			
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S-SATA 0-3 SATA 3.0 Connectors supported by Intel SCU (S-SATA 0-3) (PCH) Slot1 PCI-Express 2.0 x4 in x8 Slot from Intel PCH (CPU1) Slot2 PCI-Express 3.0 x8 Slot from CPU1 (CPU2) Slot4 PCI-Express 3.0 x4 in x8 Slot from CPU2 (CPU3) Slot5 PCI-Express 3.0 x4 in x8 Slot from CPU2 (CPU1) Slot5 PCI-Express 3.0 x4 in x8 Slot from CPU2 (CPU1) Slot6 PCI-Express 3.0 x16 Slot from CPU1 I-SGPIO1/2 Seria_Link General Purpose I/O Headers 1/2 (I-SGPIO1 for I-SATA0-3, I-SGPIO2 for I-SATA4/5) S-SGPIO Seria_Link General Purpose I/O Header (for S-SATA0-3) SP1 Internal Speaker/Buzzer (BP) USB 0/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 12/13 (3.0) Backpanel USB 3.0 Ports 12/13 (FP) USB 2/3 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	IPMI_LAN	IPMI_Dedicated LAN suppor	rt by the Aspeed Controller			
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(CPU1) Slot2 PCI-Express 3.0 x8 Slot from CPU1 (CPU1) Slot3 PCI-Express 3.0 x8 Slot from CPU1 (CPU2) Slot4 PCI-Express 3.0 x4 in x8 Slot from CPU2 (CPU1) Slot5 PCI-Express 3.0 x16 Slot from CPU1 (CPU1) Slot6 PCI-Express 3.0 x8 Slot from CPU1 I-SGPIO1/2 Seria_Link General Purpose I/O Headers 1/2 (I-SGPIO1 for I-SATAO-3, I-SGPIO2 for I-SATA4/5) S-SGPIO Seria_Link General Purpose I/O Header (for S-SATAO-3) SP1 Internal Speaker/Buzzer (BP) USB 0/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 12/13 (3.0) Backpanel USB 3.0 Ports 12/13 (FP) USB 2/3 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 4 Front-Accessible Type A Connector USB 2.0 Port 4 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	S-SATA 0-3	SATA 3.0 Connectors support	rted by Intel SCU (S-SATA 0-3)			
(CPU1) Slot3 PCI-Express 3.0 x8 Slot from CPU1 (CPU2) Slot4 PCI-Express 3.0 x4 in x8 Slot from CPU2 (CPU1) Slot5 PCI-Express 3.0 x16 Slot from CPU1 (CPU1) Slot6 PCI-Express 3.0 x8 Slot from CPU1 I-SGPIO1/2 Seria_Link General Purpose I/O Headers 1/2 (I-SGPIO1 for I-SATA0-3, I-SGPIO2 for I-SATA4/5) S-SGPIO Seria_Link General Purpose I/O Header (for S-SATA0-3) SP1 Internal Speaker/Buzzer (BP) USB 0/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 12/13 (3.0) Backpanel USB 3.0 Ports 12/13 (FP) USB 2/3 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 4 Front-Accessible Type A Connector USB 2.0 Port 4 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port	(PCH) Slot1	CH) Slot1 PCI-Express 2.0 x4 in x8 Slot from Intel PCH				
(CPU2) Slot4 PCI-Express 3.0 x4 in x8 Slot from CPU2 (CPU1) Slot5 PCI-Express 3.0 x16 Slot from CPU1 (CPU1) Slot6 PCI-Express 3.0 x8 Slot from CPU1 I-SGPIO1/2 Seria_Link General Purpose I/O Headers 1/2 (I-SGPIO1 for I-SATA0-3, I-SGPIO2 for I-SATA4/5) S-SGPIO Seria_Link General Purpose I/O Header (for S-SATA0-3) SP1 Internal Speaker/Buzzer (BP) USB 0/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 12/13 (3.0) Backpanel USB 3.0 Ports 12/13 (FP) USB 2/3 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 4 Front-Accessible Type A Connector USB 2.0 Port 4 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	(CPU1) Slot2	PCI-Express 3.0 x8 Slot from	Express 3.0 x8 Slot from CPU1			
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(CPU1) Slot6 PCI-Express 3.0 x8 Slot from CPU1 I-SGPIO1/2 Seria_Link General Purpose I/O Headers 1/2 (I-SGPIO1 for I-SATAO-3, I-SGPIO2 for I-SATA4/5) S-SGPIO Seria_Link General Purpose I/O Header (for S-SATAO-3) SP1 Internal Speaker/Buzzer (BP) USB 0/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 12/13 (3.0) Backpanel USB 3.0 Ports 12/13 (FP) USB 2/3 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 4 Front-Accessible Type A Connector USB 2.0 Port 4 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	(CPU2) Slot4	PCI-Express 3.0 x4 in x8 Slo	PCI-Express 3.0 x4 in x8 Slot from CPU2			
I-SGPIO1/2 Seria_Link General Purpose I/O Headers 1/2 (I-SGPIO1 for I-SATA0-3, I-SGPIO2 for I-SATA4/5) S-SGPIO Seria_Link General Purpose I/O Header (for S-SATA0-3) SP1 Internal Speaker/Buzzer (BP) USB 0/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 12/13 (3.0) Backpanel USB 3.0 Ports 12/13 (FP) USB 2/3 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 4 Front-Accessible Type A Connector USB 2.0 Port 4 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	(CPU1) Slot5	PCI-Express 3.0 x16 Slot fro	om CPU1			
SATAŌ-3, I-SGPIO2 for I-SATA4/5) S-SGPIO Seria_Link General Purpose I/O Header (for S-SATAO-3) SP1 Internal Speaker/Buzzer (BP) USB 0/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 12/13 (3.0) Backpanel USB 3.0 Ports 12/13 (FP) USB 2/3 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 4 Front-Accessible Type A Connector USB 2.0 Port 4 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	(CPU1) Slot6	PCI-Express 3.0 x8 Slot from	n CPU1			
SP1 Internal Speaker/Buzzer (BP) USB 0/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 12/13 (3.0) Backpanel USB 3.0 Ports 12/13 (FP) USB 2/3 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 4 Front-Accessible Type A Connector USB 2.0 Port 4 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	I-SGPIO1/2		Seria_Link General Purpose I/O Headers 1/2 (I-SGPIO1 for I-			
(BP) USB 0/1 Backpanel USB 2.0 Ports 0/1 (BP) USB 12/13 (3.0) Backpanel USB 3.0 Ports 12/13 (FP) USB 2/3 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 4 Front-Accessible Type A Connector USB 2.0 Port 4 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	S-SGPIO	Seria_Link General Purpose	Seria_Link General Purpose I/O Header (for S-SATA0-3)			
(BP) USB 12/13 (3.0) Backpanel USB 3.0 Ports 12/13 (FP) USB 2/3 Front-Accessible USB 2.0 Connection Header 2/3 (FP) USB 4 Front-Accessible Type A Connector USB 2.0 Port 4 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	SP1	Internal Speaker/Buzzer	Internal Speaker/Buzzer			
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(FP) USB 4 Front-Accessible Type A Connector USB 2.0 Port 4 (FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	(BP) USB 12/13 (3	.0) Backpanel USB 3.0 Ports 12	2/13			
(FP) USB 8/9 (3.0) Front-Accessible USB 3.0 Connection Header 8/9 VGA Backpanel VGA Port LED Indicators	(FP) USB 2/3	Front-Accessible USB 2.0 C	onnection Header 2/3			
VGA Backpanel VGA Port LED Indicators	(FP) USB 4	Front-Accessible Type A Cor	nnector USB 2.0 Port 4			
LED Indicators	(FP) USB 8/9 (3.0)	Front-Accessible USB 3.0 C	onnection Header 8/9			
	VGA	Backpanel VGA Port				
LED D I II OLI CITA						

		LED Indicators	
LED	Description	State	Status
LE1	Rear UID LED	Blue: On	Unit Identified
LE2	Onboard PWR LED	On	System Power On
LEDM1	BMC Heartbeat LED	Green: Blinking	BMC Normal

/ Note: Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as the drawings shown in this quide.

CPU Support

Dual Intel® E5-2600v3/v4 Series processors (Socket R3-LGA 2011); each processor supports dual full-width Intel QuickPath Interconnect (QPI) links (of up to 9.6 GT/s one direction per QPI)

Memory Support

The X10DRL-i Motherboard supports up to 512 GB of DDR4 Registered (RDIMM)/ Load Reduced (LRDIMM) ECC 2400/2133/1866/1600 MHz memory modules in eight DIMM slots. Memory speed support is dependent on the CPUs used in the motherboard. For the latest memory updates, please refer to our website a at http://www.supermicro.com/products/motherboard.

Populating RDIMM/LRDIMM DDR4 Memory Modules for the E5-2600v3based Motherboard

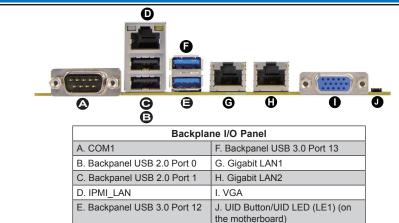
	Ranks Per	DIMM Capacity		Speed (MT/s); Voltage (V); Slot Per Channel (SPC) and DIMM Per Channel (DPC)
Туре	DIMM and Data Width	(GB)	1 Slot Per Channel	
			1DPC	
		4Gb 8Gb		1.2V
RDIMM	SRx4	8GB	16GB	2133
RDIMM	SRx8	4GB	8GB	2133
RDIMM	DRx8	8GB	16GB	2133
RDIMM	DRx4	16GB	32GB	2133
LRDIMM	QRx4	32GB	64GB	2133
LRDIMM 3DS [†]	8Rx4	64GB	128GB	2133

Populating RDIMM/LRDIMM DDR4 Memory Modules for the E5-2600v4based Motherboard

Туре	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V); Slot Per Channel (SPC) and DIMM Per Channel (DPC) 1 Slot Per Channel
				1.2V
RDIMM	SRx4	8GB	16GB	2400
RDIMM	SRx8	4GB	8GB	2400
RDIMM	DRx8	8GB	16GB	2400
RDIMM	DRx4	16GB	32GB	2400
LRDIMM	QRx4	32GB	64GB	2400
LRDIMM 3DS	8Rx4	64GB	128GB	2400

DIMM Memory Installation Notches Release Tabs





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