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 single-pack only)

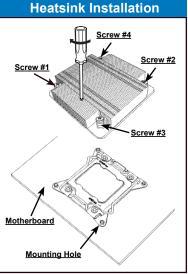
- One (1) Supermicro MotherboardTwo (2) Serial ATA Cables
- One (1) I/O Shield

Jumpers, Connectors and LED Indicators

- Two (2) I-Pass to Serial ATA Cables (X9DR3-F) • One (1) I-Pass to Serial ATA Cable (X9DRi-F)

Motherboard Layout and Features JI2C2 JI2C1 SUPER® X9DR3/i-F Rev. 1.11a 46 = mounting hole Note: Item numbers are listed in

CPU Installation PU Keys



JF1 Header Pins					
	20	19			
Ground	0	0	NMI		
x <	0	0	х		
Power LED <	0	0	Vcc		
HDD LED $\left\langle \ \ \right $	0	0	Vcc		
NIC1 LED	0	0	Vcc		
NIC2 LED	0	0	Vcc		
OH/Fan Fail LED	0	0	Vcc		
PWR Fail LED	0	0	Vcc		
Ground	0	0	Reset Button		
Ground	0	0	PWR Power Button		
	2	1			

counterclockwise

VGA

order.

		Jumpers		
Jumper	Item #	Description	Default	
JBT1	27	Clear CMOS	None	
JPB1	14	BMC Enabled	Pins 1-2 (Enabled)	
JPG1	12	VGA Enabled Pins 1-2 (Enabled)		
JPL1	11	GLAN1/GLAN2 Enable Pins 1-2 (Enabled)		
JPME1	18a	Management Engine (ME) Recovery Mode	Pins 1-2 (Normal)	
JPME2	32a	Management Engine (ME) Manufacture Mode	Pins 1-2 (Normal)	
JWD	23	Watch Dog	Pins 1-2 (Reset)	
		Connectors		
Connector	Item #	Description		
COM1, COM2	1, 15	Back Panel Com Port1 / Fro	nt Accessible COM2 Header	
Fan 1~3	45, 44, 43	CPU/System Fan Headers		
Fan 4~6	42, 9, 10	CPU/System Fan Headers		
FanA, FanB	41, 33	CPU/System Fan Headers		
I-SATA 0/1	31	Intel SB SATA 3.0 Connectors 0/1		
I-SATA 2~5	30	Intel SB SATA 2.0 Connectors 2~5		
J22 (JPWR3)	46	ATX 24-Pin Power Connector		
JD1	37	Speaker/Power LED Indicator		
JF1	39	Front Panel Control Header		
JI ² C1/JI ² C2	17, 16	SMBus I ² C Header		
JIPMB1	18	4-Pin External BMC I ² C Header (for IPMI card)		
JL1	29	Chassis Intrusion		
JOH1	38	Overheat LED Indicator		
JPI ² C1	48	Power Supply SMBus I ² C Header		
JPWR1/2	49, 47	12V 8-Pin Power Connector	S	
JSTBY1	34	Standby Header		
JTPM1	19	TPM (Trusted Platform Module) Port 80		
JWF1	28	SATA DOM (Disk on Module) Power Connector		
LAN1, LAN2	6, 7	G-bit Ethernet Ports 1/2		
(IPMI) LAN	3	IPMI Dedicated LAN		
SCU 0~3	36	SCU Connectors 0~3		
SCU 4~7	35	SCU Connectors 4~7 (for X9DR3-F only)		
SP1	32	Onboard Buzzer (Internal Sp	peaker)	
T-SGPIO 1, 2	21, 20	Serial Link General Purpose	I/O Headers	
BP USB 0/1, USB 2/3	2, 4	Back Panel USB 0/1, 2/3		
USB 4/5, USB 6,	25, 22	Front Panel Accessible USB	Connections	
USB 8/9, USB 10/11	24, 26	Front Panel Accessible USB	Connections	

		LED Indicator	'S	
LED	Item #	Description	Color/State	Status
DM1	13	BMC Heartbeat LED	Green: Blinking	BMC Normal
LE1	40	Standby PWR LED	Green: On	SB Power On

Back Panel VGA Port

Memory Support

This motherboard supports up to 1 TB of Load Reduced (LRDIMM), 512 GB of Registered (RDIMM) or 128 GB of Unbuffered (UDIMM) ECC/Non-ECC DDR3 800/1066/1333/1600/1866 MHz 240-pin 4-channel memory modules in 16 DIMM

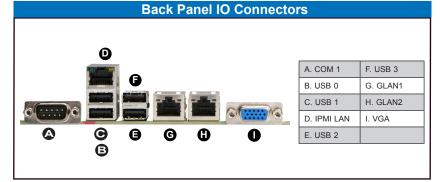
Note: For memory optimization, use only DIMM modules that have been validated by Supermicro. For the latest memory updates, please refer to our website at http://www.supermicro.com/ products/motherboard.

DIMM Installation

Insert the desired number of DIMMs into the memory slots, starting with P1-DIMMA1. For memory to work properly, follow the tables below for memory population order. Refer to the motherboard layout (at left) for the location of the DIMM slots.

	Processors and their Corresponding Memory Modules							
CPU#		Corresponding DIMM Modules						
CPU 1	P1-	P1-	P1-	P1-	P1-	P1-	P1-	P1-
	DIMMA1	DIMMB1	DIMMC1	DIMMD1	DIMMA2	DIMMB2	DIMMC2	DIMMD2
CPU2	P2-	P2-	P2-	P2-	P2-	P2-	P2-	P2-
	DIMME1	DIMMF1	DIMMG1	DIMMH1	DIMME2	DIMMF2	DIMMG2	DIMMH2

Processor a	Processor and Memory Module Population for Optimal Performance				
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (For memory to work properly, please follow the instructions below.)				
1 CPU & 2 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1				
1 CPU & 4 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1				
1 CPU & 5-8 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1 + Any memory pairs in P1-DIMMA2/P1-DIMMB2/P1-DIMMC2/P1-DIMMD2 slots				
2 CPUs & 4 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1, P2-DIMME1/P2-DIMMF1				
2 CPUs & 6 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1				
2 CPUs & 8 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2- DIMMG1/P2-DIMMH1				
2 CPUs & 10-16 DIMMs	CPU1/CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1 + Any memory pairs in P1, P2 DIMM slots				
2 CPUs & 16 DIMMs	CPU1/CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/ P2-DIMMG1/P2-DIMMH1,P1-DIMMA2/P1-DIMMB2/P1-DIMMC2/P1-DIMMD2, P2-DIMME2/P2-DIMMF2/P2-DIMMG2/P2-DIMMH2				



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

8

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

1.0_B