SUPERMICRO®
PDSMA+ / PDSMA-E+
MOTHERBOARD QUICK REFERENCE GUIDE

Motherboard Layout and Features

SUPER® PDSMA+/PDSMA-E+

CPU LGA 775

North Bridge Intel 3000 (PDSMA+) / Intel 3010 (PDSMA-E+)

ICH7R South Bridge

PXH-V

IPMI 2.0

DIMM 1A, DIMM 2A, DIMM 1B, DIMM 2B
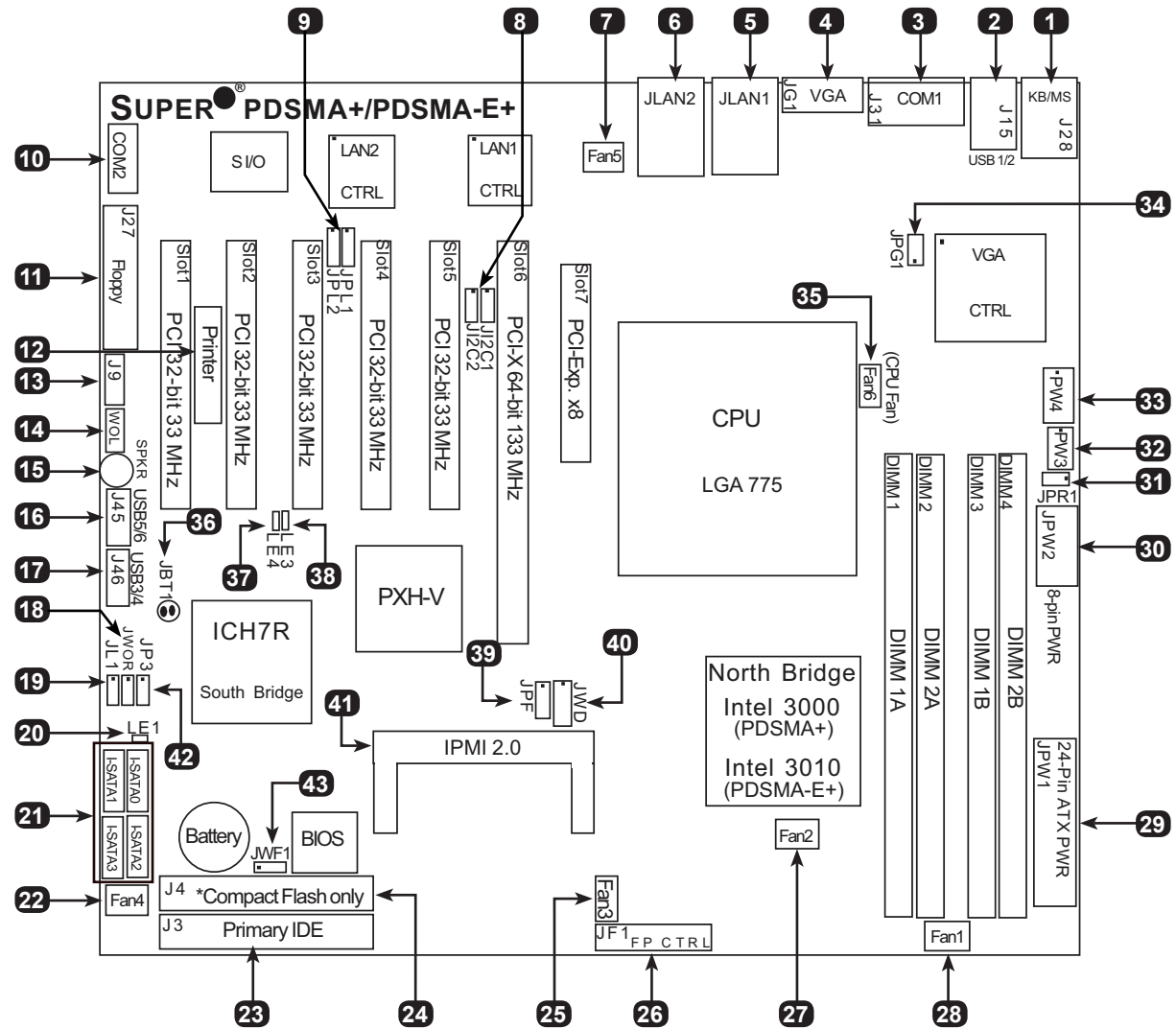
Jumpers, Connectors and LED Indicators

Jumpers

Item #	Jumper	Description	Default
8	JI²C1, JI²C2	SMbus to PCI Slot	Open/Open (Disabled)
9	JPL1, JPL2	Giga-bit LAN1/LAN2 Enable	Pins 1-2 (Enabled)
34	JPG1	VGA Enable	Pins 1-2 (Enabled)
36	JBT1	CMOS Clear	See Section 2-7 in Manual
39	JPF	Power Force-On	Open (Disabled)
40	JWD	Watch Dog Enable	Pins 1-2 (Reset)
42	JP3	Compact Flash Master/Slave	Closed (Master)

Connectors

Item #	Connector	Description
1	KB/MS	PS/2 Keyboard and Mouse
2	USB 1/2	Back Panel Universal Seral Bus Ports 1 & 2
3, 10	COM1, COM2	COM Port1, COM 2 Header
4	VGA	VGA Connector
5, 6	JLAN1, JLAN2	Ethernet RJ45 (Gigabit LAN) Port1/Port2 Connectors
7, 22, 35	Fan5, Fan4, Fan6	System Fan Headers (Fan 4, 5); CPU (Fan6)
11	Floppy (J27)	Floppy Disk Connector
12	Printer	Parallel Port Header
13	J9	Speaker Connector (Pins 3-4: Internal Buzzer)
14	WOL	Wake On LAN Header
15	SPKR	Internal Buzzer
16, 17	USB 5/6, USB 3/4	Front Panel Accessible USB Headers
18	JWOR	Wake On Ring Header
19	JL1	Chassis Intrusion Header
21	I-SATA 0~3	Intel SATA Headers
23	Primary IDE (J3)	IDE Master (See notes on page 1-4 in User Manual)
24	J4	Compact Flash (See notes on page 1-4 in User Manual)
25, 27, 28	Fan3, Fan2, Fan1	System Fan Headers
26	FP CTRL (JF1)	Front Panel Control header
29	24-Pin ATX PWR (JPW1)	ATX 24-Pin Power Connector
30	8-Pin ATX PWR (JPW2)	12V 8-Pin Power Connector (required)
31	JPR1	Alarm Reset
32	PW3	Power Fault Header (See Chapter 2 in User Manual)
33	PW4	Power System Management Bus (I²C)
41	IPMI	IPMI 2.0 Socket
43	JWF1	Compact Flash PWR Connector

LED Indicators

Item #	LED	Description
20	LE1	Onboard PWR warning LED Indicator
37, 38	LE4, LE3	BIOS POST Code Indicator

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

Memory Support

This motherboard supports up to 8GB of dual channel, ECC/Non-ECC unbuffered DDR2 667/533/400 MHz SDRAM in 4 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 Memory Installation

Towards the edge of the motherboard
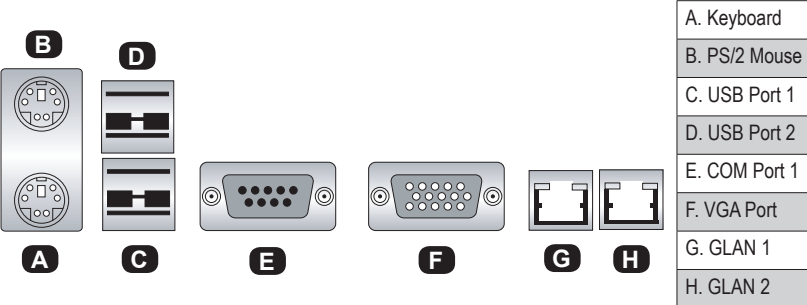
DIMM2B
DIMM1B
DIMM2A
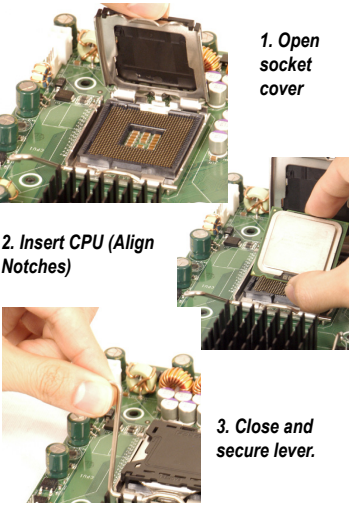DIMM1A

Towards the CPU
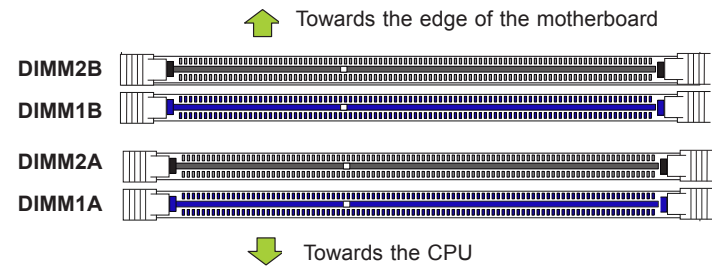
Memory Population Guidelines

When installing memory modules, the DIMM slots should be populated in the following order: DIMM1A, DIMM1B and DIMM2A, DIMM2B.

Possible System Memory Allocation & Availability		
System Device	Size	Physical Memory Remaining (-Available) (4 GB Total System Memory)
Firmware Hub flash memory (System BIOS)	1 MB	3.99
Local APIC	4 KB	3.99
Area Reserved for the chipset	2 MB	3.99
I/O APIC (4 Kbytes)	4 KB	3.99
PCI Enumeration Area 1	256 MB	3.76
PCI Express (256 MB)	256 MB	3.51
PCI Enumeration Area 2 (if needed) -Aligned on 256-MB boundary-	512 MB	3.01
VGA Memory	16 MB	2.85
TSEG	1 MB	2.84
Memory available to OS and other applications		2.84

CPU Installation

1. Open socket cover
2. Insert CPU (Align Notches)
3. Close and secure lever.

Heatsink Installation

1. Apply thermal grease
2. Set heatsink on CPU
3. Twist to lock fasteners

Front Panel Control (JF1)

	20	19	
Ground	○	○	NMI
X	○	○	X
Power LED	○	○	Vcc
NIC2 LED	○	○	Vcc
NIC1 LED	○	○	Vcc
OH/Fan Fail LED	○	○	Vcc
HDD LED	○	○	Vcc
X	○	○	Vcc
Ground	○	○	Reset / Reset Button
Ground	○	○	PWR / Power Button
	2	1	

Back Panel I/O Connectors

A.	Keyboard
B.	PS/2 Mouse
C.	USB Port 1
D.	USB Port 2
E.	COM Port 1
F.	VGA Port
G.	GLAN 1
H.	GLAN 2
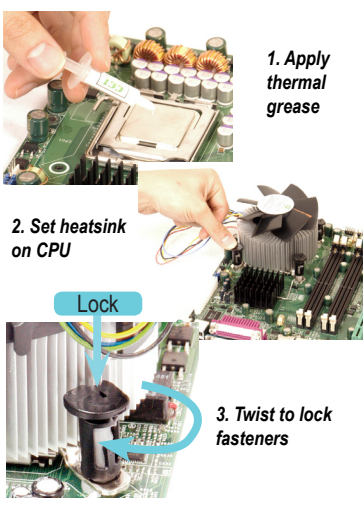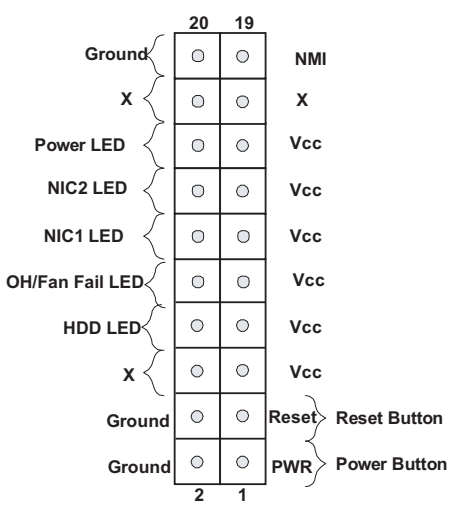
Note: Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as drawings shown in this guide.

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