CONTACT INFORMATION

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

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

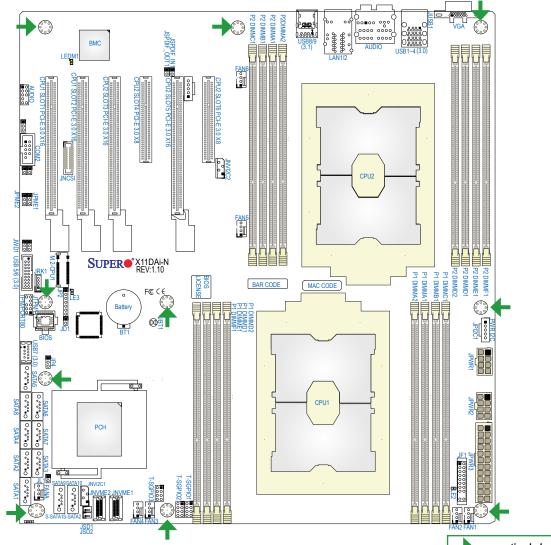
FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE

PACKAGE CONTENTS

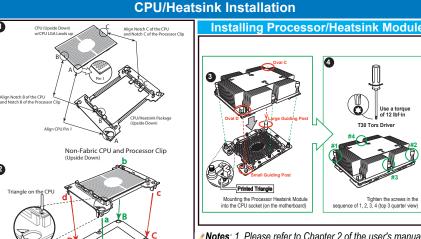
- One (1) Supermicro MotherboardSix (6) SATA Cables (CBL-0044L)
- One (1) I/O Shield (MCP-260-00115-ON)
- One (1) Quick Reference Guide (MNL-1957-QRG)

lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.





= mounting hole



i ront i	u.	<u> </u>	
	_1	2	•
Power	0	0	Ground
Reset	0	0	Ground
3.3V	0	0	Power Fail LED
UID LED	0	0	OH/Fan Fail LED
3.3V Stby	0	0	NIC2 Active LED
3.3V Stby	0	0	NIC1 Active LED
3.3V Stby	0	0	> HDD LED
3.3V	0	0	> PWR LED
x	0	0	 \sample x
NMI	0	0	Ground
	19	20	

Front Panel Control (JF1)

Notes: 1. Please refer to Chapter 2 of the user's manual for detailed instructions of CPU/Heatsink and memory Installation. 2. Please refer to our website at www.supermicro.com for CPU/Memory support updates. 3. All graphics shown in this quick reference quide are for illustration only. Your components may or may not look the same as the graphics shown in this quick reference guide.

Jumpers, Connectors and LED Indicators

Jump	ers, c	onnectors a	nd LED Indicators	
			Jumpers	
JBT1	CMC	OS Clear	Open (Normal)	
JPME1	ME	Recovery	Pins 1-2 (Normal)	
JPME2	Man	ufacturing Mode Se	lect Pins 1-2 (Normal)	
JWD1	Wate	ch Dog Timer Enabl	, ,	
Adia (1A	4)		Connectors	
Audio (JA	•	Audio connector fo		
Audio (JA	UDIO1)	Audio port on the I/O back panel		
BT1	,			
, , , , , , , , , , , , , , , , , , , ,			eader for front access	
FAN1-6, F	ANA		n headers (FAN1-FAN6, FAN A)	
	JD1 Speaker/buzzer h		eader (optional) (Note1)	
JF1		Front Panel Contro		
JIPMB1		4-pin BMC externa	al I ² C header (for an IPMI card)	
JL1 Chassis intrusion I		Chassis intrusion	header (Note 2)	
JNCSI NCSI header				
JNVI ² C1/2	2	NVMe SMBus (I ² C & data connection) headers used for PCI-E hot-plug SMBus clocks. (Note 4)	
JNVME1/2	2	NVMe slots 1/2 (N	ote 3)	
JP2		Complex-Program	mable Logical Device (CPLD) header	
JP4		5V/5V AUX switch		
JSD1/JSD2 SATA DOM (Disk-on-Module) power co		on-Module) power connectors 1/2		
JPI ² C1	Power supply SMBbu		Bbus I ² C header	
JPWR1/JPWR2 8-pin power supp		8-pin power supply	y connectors	
JPWR3 24-pin ATX main		24-pin ATX main p	ower supply connector	
JRK1		Intel VROC RAID	Key for NVMe SSD	
		SPDIF Audio In/O	ut connectors	
JTPM1		Port 80 connector	for Trusted Platform Module (TPM)	
LAN1/LAN	12	Gigabit LAN (1G L	AN) Ethernet ports on the IO back panel	
M.2-CPU1	l	M.2 Slot supported	d by CPU1	
11		SATA 3.0 connecti	on headers supported by the Intel PCH	
		Powered S-SATA	connection headers w/support of SuperDOM	
		PCI-Express 3.0 X	(16 slots supported by CPU1	
			(16 slots supported by CPU2	
•		•	(8 Slots supported by CPU2	
		·	Serial I/O ports 1/2/3	
USB1/2/3/4 (3.0) Backpanel USB 3.0 pc				
		•	JSB 3.0 Type A connector (USB 7)	
USB5/6 (3.0) USB 3.0 connections 5/6 for the state of the			**	
USB8/9 (3.1) Back panel USB 3.		Back panel USB 3	3.1 ports 8/9	
VGA	,	VGA port on the I/	•	
			ED Indicators	
LE2	Onboa	rd Power LED	On: Onboard power on	
LE3 M.2 LED		D	Blinking Green: Device Working	
LEDM1	BMC F	leartbeat LED	Blinking Green: BMC normal	

Note: 1. This feature is available when an external speaker/buzzer is used. 2. Please connect a cable from the Chassis Intrusion header at JL1 to the chassis to receive an alert via IPMI. 3. When installing an NVMe device on a motherboard, please be sure to connect JNVME1 first for your system to work properly. 4. An SMCI-proprietary NVMe add-on card and cable are required; available for a Supermicro complete system only.

CPU Support

Dual Intel Xeon Scalable-SP or 2nd Gen Intel Xeon Scalable-SP Series processors (Socket P0); each processor supports dual full-width Intel UltraPath Interconnect (UPI links of up to 10.4 GT/s one direction per UPI.

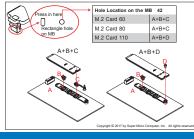
Memory Support

This motherboard supports up to 4TB of 3DS LRDIMM, LRDIMM, 3DS RDIMM, RDIMM, NV-DIMM DDR4 (288-pin) ECC 2933/2666/2400/2133 MHz memory modules in 16 slots. (Notes: 1. Up to 5TB is supported with (L)RDIMM and DCPMM populated in a balanced memory configuration. 2. 2933 MHz memory is supported by 2nd Gen Intel Xeon Scalable-SP(82xx/62xx) series processors only. 3. Unbalanced

memory configuration decreases memory performance and is not recommended.)				
*1 CPU used:	Memory Population Sequence			
1 CPU & 1 DIMM	CPU1: P1-DIMMA1			
1 CPU & 2 DIMMs	CPU1: P1-DIMMA1/P1-DIMMD1			
1 CPU & 3 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1			
1 CPU & 4 DIMMs	CPU1: P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1			
1 CPU & 5 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1 (*Unbalanced: not recommended)			
1 CPU & 6 DIMM	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1			
1 CPU & 7 DIMMs	CPU1:P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2/P1-DIMMD1/P1-DIMME1/P1-DIMMF1 (*Unbalanced: not recommended)			
1 CPU & 8 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/P1-DIMMD1/P1-DIMME1/P1-DIMMF1 (*Unbalanced: not recommended)			
*2 CPUs used:	Memory Population Sequence			
2 CPUs & 2 DIMMs	CPU1: P1-DIMMA1 CPU2: P2-DIMMA1			
2 CPUs & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMMD1 CPU2: P2-DIMMA1/P2-DIMMD1			
2 CPUs & 6 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1			
2 CPUs & 8 DIMMs	CPU1: P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1 CPU2: P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1			
2 CPUs & 10 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1			
2 CPUs & 12 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMB1/P2-DIMMF1			
2 CPUs & 14 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2/P1-DIMMD1/P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMA2/P2-DIMMD1/P2-DIMME1/P2-DIMMF1 (*Unbalanced: not recommended)			
2 CPUs & 16 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/P1-DIMMD1/P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMA2/P2-DIMMD2/P2-DIMMD1/P2-DIMME1/P2-DIMMF1 (*Unbalanced: not recommended)			

PCI-E M.2 Slot Installation





Back Panel I/O Ports

6. 7.1 HD Audio

Back Panel I/O Connectors

