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FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE

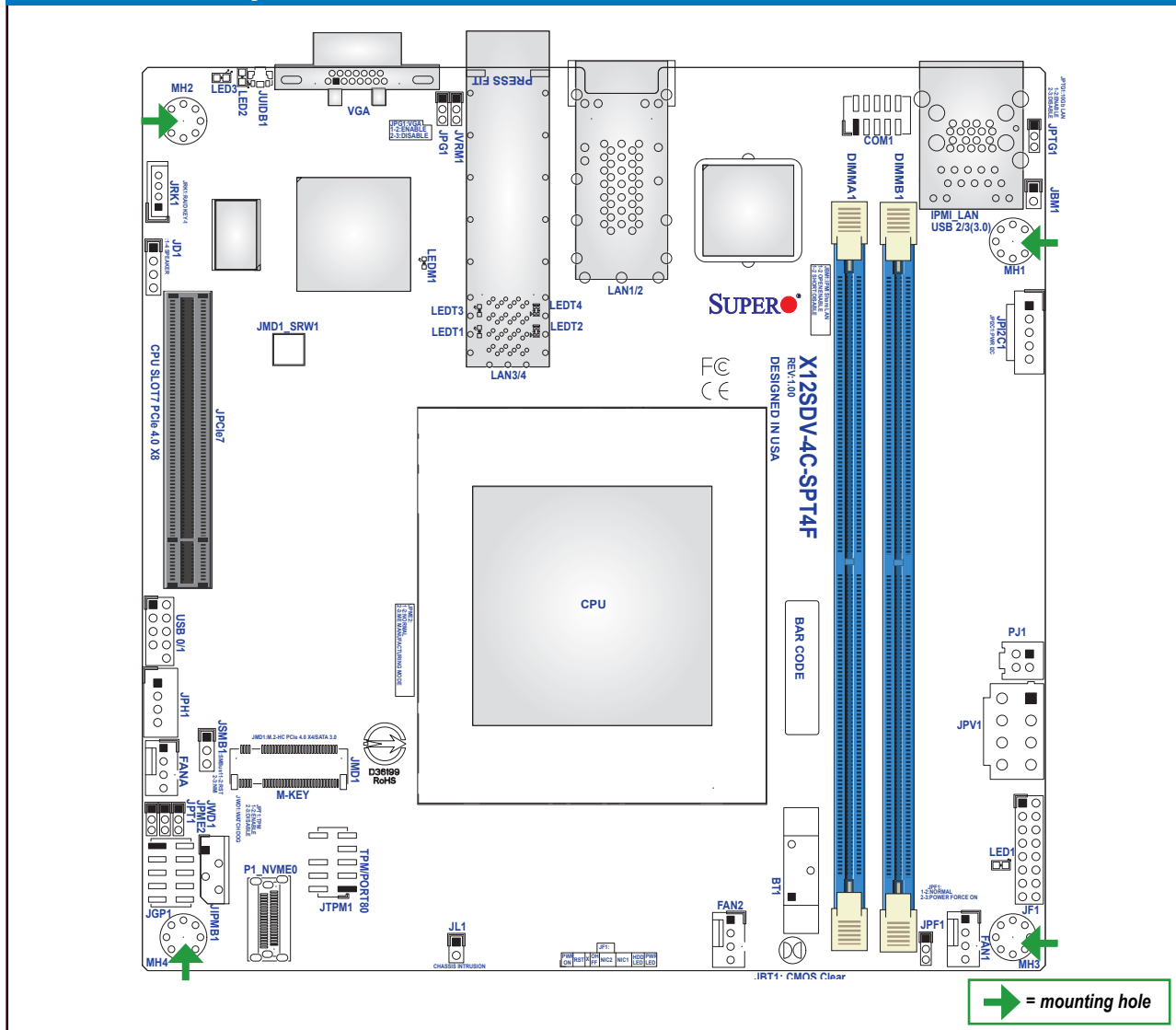
- DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:**
- Manuals: <http://www.supermicro.com/support/manuals>
 - Drivers & Utilities: <https://www.supermicro.com/wdl/driver/>
 - Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

- One Supermicro Motherboard
- One Quick Reference Guide
- One I/O Shield
- One COM Port Cable
- One OCuLink to U.2 Cable
- One ATX Power Signal Cable
- One OCuLink to four SATA Cables



Motherboard Layout and Features



Jumpers and Connectors

Jumpers		
Jumper	Description	Default Setting
JBM1	IPMI Shared LAN Enable/Disable	Open (Enabled)
JBT1	CMOS Clear	Open (Normal)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)
JPT1	Onboard TPM 2.0 Enable/Disable	Pins 1-2 (Enabled)
JPTG1	LAN1/2 Enable/Disable	Pins 1-2 (Enabled)
JWD1	Watchdog Timer	Pins 1-2 (Reset)

Connectors	
Connector	Description
BT1	Onboard Battery
COM1	COM Header
FAN1-FAN2, FANA	CPU/System Fan Headers
IPMI LAN	Dedicated IPMI LAN Port
JD1	Internal Speaker Header (Pins 1-4: Speaker)
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JIPMB1	4-pin BMC External I ² C Header
JL1	Chassis Intrusion Header
JMD1	M.2 M-Key 2280 (PCIe 4.0 x4/SATA 3.0) Slot
JMD1_SRW1	M.2 Mounting Hole
JPH1	4-pin HDD Power Connector
JPI ² C1	Power System Management Bus I ² C Header
JPV1	8-pin 12V DC Power Input (Required for 12V only or 24-pin ATX Power)
JRK1	Intel [®] RAID Key Header
JSMB1	System Management Bus Header
JTPM1	Trusted Platform Module/Port 80 Connector
JUIDB1	Unit Identifier Switch
LAN1/2	10GbE Base-T RJ45 LAN Ports
LAN3/4	25GbE SFP28 LAN Ports
P1_NVME0	PCIe 3.0 x4 OCuLink Connectors (Support PCIe4 or 4xSATA)
PJ1	ATX Power Signal Header (Supermicro P/N for cable: CBL-PWEX-1063)
SLOT7	PCIe 4.0 x8 Slot
USB0/1	USB 2.0 Header
USB2/3	Back Panel USB 3.0 Ports
VGA	VGA Port

LED Indicators

LED	Description	Status
LED1	Power LED	Solid Green: Power On
LED2	UID LED	Solid Blue: Unit Identified
LED3	Overheat/PWR Fail/ Fan Fail	Solid Red: Overheat Blinking Red: PWR Fail or Fan Fail
LEDM1	BMC Heartbeat LED	Blinking Green: BMC Normal

CPU and Memory Support

The X12SDV-4C/8C/10C-SPT4F motherboard supports the Intel Xeon D-1700 processor series with up to 10 cores and a thermal design power (TDP) of up to 90W.

The motherboard supports up to 128GB of ECC and Non-ECC RDIMM/UDIMM DDR4 memory with speeds of up to 2933MT/s in two memory slots.

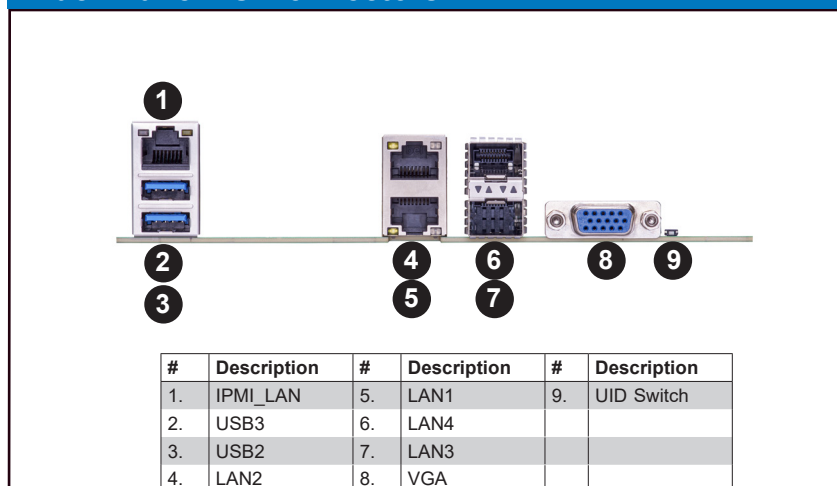
DIMM Memory Installation

When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1, DIMMB1.

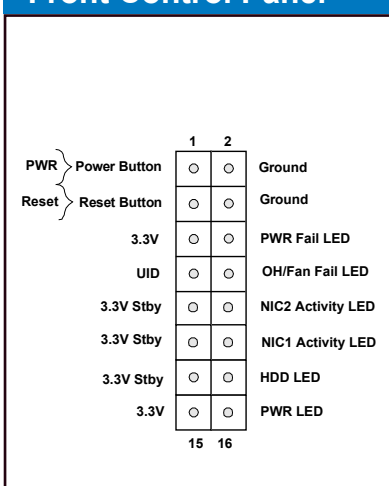
- It is recommended to use DDR4 memory of the same type, size, and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules (one installed). However, to achieve the best memory performance, a balanced memory population is recommended.

Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V); Slot Per Channel (SPC) and DIMM Per Channel (DPC)
		8Gb	16 Gb	
RDIMM	SRx8 (RC D)	8GB	16GB	2933 1DPC
	SRx4 (RC C)	16GB	32GB	
	DRx8 (RC E)	16GB	32GB	
	DRx4 (RC A)	32GB	64GB	
ECC UDIMM	SRx8	8GB	16GB	
Non-ECC UDIMM	DRx8	16GB	32GB	

Back Panel I/O Connectors



Front Control Panel



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.

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

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