SUPERMICRO®

X12SDV-4C/8C/10C/10CR-SP6F, X12SDV-8CE-SP4F

Quick Reference Guide 1.0c

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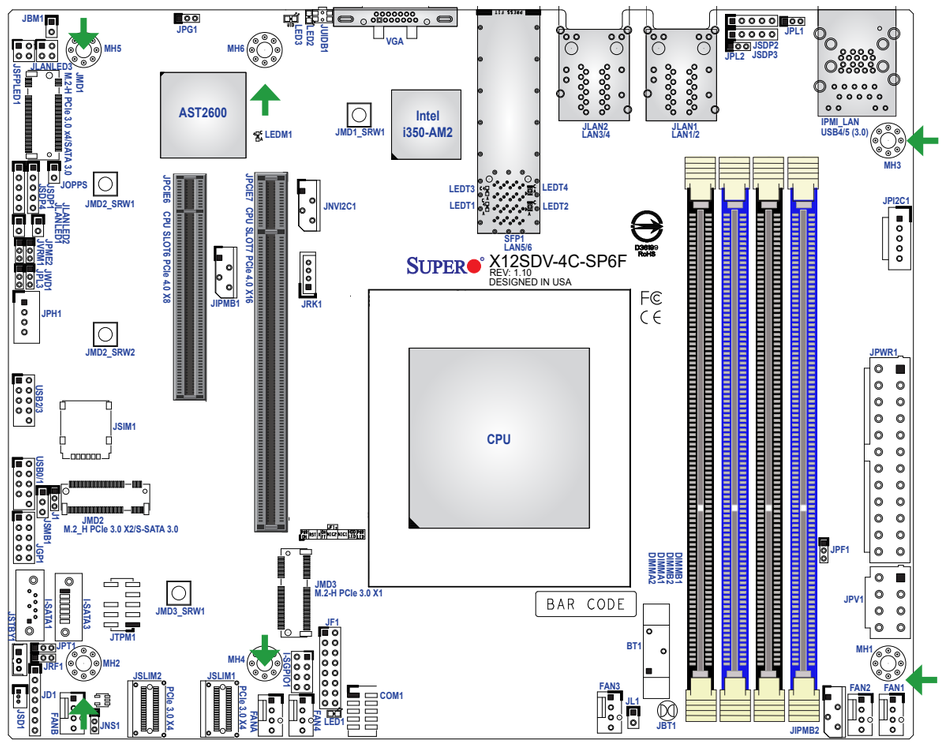
For your system to work properly, please download appropriate drivers/images/user's manual from the links below:
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: https://www.supermicro.com/wdl/driver/
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

Package Contents
- One Supermicro Motherboard
- One Quick Reference Guide
- One COM Port Cable
- Two x4 SlimSAS to U.2 Cables
- One I/O Shield
- Two SATA Cables

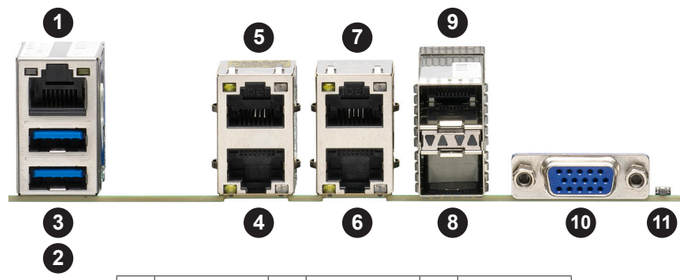
WARNING: This product can expose you to chemicals including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Motherboard Layout and Features



= mounting hole

Rear I/O Panel Connectors



#	Description	#	Description	#	Description
1	IPMI LAN	6	RJ45 LAN3	11	UID Button
2	USB4 (3.0)	7	RJ45 LAN4		
3	USB5 (3.0)	8	SFP28 LAN5		
4	RJ45 LAN1	9	SFP28 LAN6		
5	RJ45 LAN2	10	VGA Port		

Note 1: RJ45 LAN3 and RJ45 LAN4 are unavailable in X12SDV-8CE-SP4F.
Note 2: 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.

Jumpers and Connectors

Jumpers

Jumper	Description	Default Setting
J1	SIM Card Detection	Pins 1-2 (High Active)
JBM1	IPMI Shared LAN Enable/Disable	Open (Enabled)
JBT1	CMOS Clear	Open (Normal)
JNS1	SlimSAS Interface Selection	Pins 2-3 (PCIe x4)
JPF1	Power Force On	Pins 1-2 (ATX)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPL1, JPL2, JPL3	LAN1, LAN2, LAN3/4 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)
JWD1	Watchdog Timer	Pins 1-2 (Reset)

Connectors

Connector	Description
BT1	Onboard Battery
COM1	COM Header
FAN1 – FAN4, FANA, FANB	CPU/System Fan Headers (FAN1: CPU Fan)
IPMI LAN	Dedicated IPMI LAN Port
I-SATA1, I-SATA3	SATA 3.0 Ports (I-SATA1: SATA DOM Power)
I-SGPIO1	Serial Link General Purpose I/O Header
JD1	Power LED/Speaker (Pins 1-3: Power LED, Pins 4-7: Speaker)
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JIPMB1, JIPMB2	4-pin BMC External I²C Headers
JL1	Chassis Intrusion Header
JLANLED1	LAN1 Activity LED Header
JLANLED2	LAN2 Activity LED Header
JLANLED3	LAN3/4 Activity LED Header
JMD1	M.2 M-Key PCIe 3.0 x4/SATA 3.0 Slot (2280 form factor)
JMD2	M.2 B-Key PCIe 3.0 x2/SATA 3.0/USB 3.0 Slot (2280/3042/3052 form factors)
JMD3	M.2 E-Key PCIe 3.0 x1/USB 2.0 Slot (2230 form factor)
JMD1_SRW1, JMD2_SRW1, JMD2_SRW2, JMD3_SRW1	M.2 Mounting Holes
JNVI2C1	Non-Volatile Memory (NVMe) I²C Header
JOPPS	Reserved for One Pulse Per Second
JPH1	4-pin HDD Power Connector
JPI2C1	Power System Management Bus (SMB) I²C Header
JPWR1	24-pin ATX Power Connector
JPV1	8-pin 12 V DC Power Connector for CPU (required) or alternate single power input when the 24-pin ATX power is not in use
JRK1	Intel RAID Key Header
JSD1	SATA DOM Power Connector
JSDP1 – JSDP4	Reserved for time synchronization
JSFPLED1	LAN5/6 Activity LED Header
JSIM1	NANO SIM Slot for M.2 B-Key
JSLIM1, JSLIM2	SlimSAS PCIe 3.0 x4 Slots

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

Connectors and LED Indicators

Connectors

Connector	Description
JSMB1	System Management Bus Header
JSTBY1	Standby Power Header
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JUIDB1	Unit Identifier Switch
LAN1/2, LAN3/4	Gigabit Ethernet RJ45 Ports
LAN5/6	25 GbE SFP28 LAN Ports
MH1 – MH6	Motherboard Mounting Holes
SLOT6	PCIe 4.0 x8 Slot (Shared with SLOT7 x8/x8)
SLOT7	PCIe 4.0 x16 Slot
USB0/1, USB2/3	USB 2.0 Headers
USB4/5	Rear I/O 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 (OH)/Power Fail/Fan Fail LED	Solid Red: Overheat Blinking Red: Power Fail or Fan Fail
LEDM1	BMC Heartbeat LED	Blinking Green: BMC Normal

Processor Support

The X12SDV-4C/8C/10C-SP6F and X12SDV-8CE-SP4F motherboards support the Intel® Xeon® D-1700 processor series with a thermal design power (TDP) of up to 80 W.

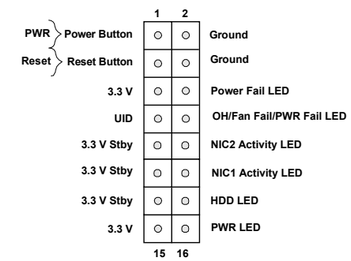
The X12SDV-10CR-SP6F motherboard supports the Intel Xeon D-1800 processor series with a TDP of up to 55 W.

Memory Support

The X12SDV-4C/8C/10C-SP6F, X12SDV-8CE-SP4F, and X12SDV-10CR-SP6F motherboards support up to 256 GB of DDR4 Non-ECC/ECC RDIMM/UDIMM with speeds of up to 2933 MT/s in four slots. Insert the desired number of DIMMs, starting with DIMMA1, DIMMB1, then DIMMA2, DIMMB2.

For optimal performance, use memory modules of the same type and speed.

Front Control Panel



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

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