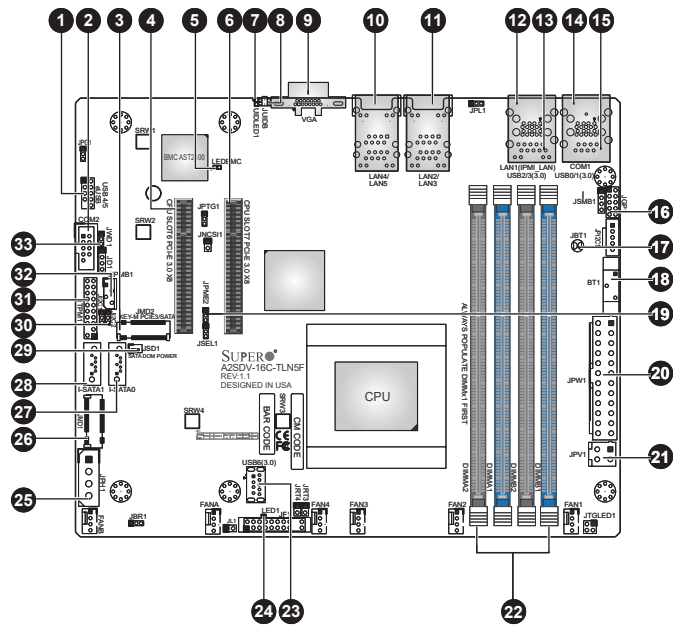


SUPERMICR® SuperServer 5019A-FN5T Quick Reference Guide

Board Layout

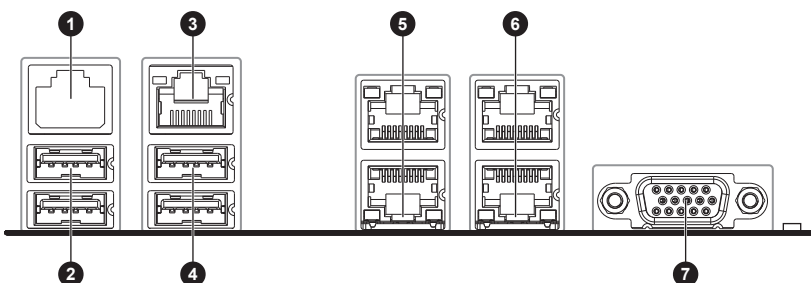


No.	Jumper & Description
1	USB4/5 eUSB: Front Accessible USB 2.0 Header
2	COM2: COM Header
3	JMD2: M.2 M-Key PCIe3/SATA3 Connector
4	SLOT6: PCI-E 3.0 x8 Slots (selectable with JSEL1)
5	LEDBMC: BMC Heartbeat
6	SLOT7: PCI-E 3.0 x8 Slots (selectable with JSEL1)
7	UIDLED1: UID LED
8	JUIDB1: Unit ID Button
9	VGA: VGA Port
10	LAN4/5: 10Gigabit Ethernet (RJ45) Ports
11	LAN2/3: 10Gigabit Ethernet (RJ45) Ports
12	LAN1: Gigabit Ethernet (RJ45) Port shared IPMI
13	USB2/3: USB 3.0 Ports
14	COM1: COM Port (on the I/O back panel)
15	USB0/1: Back Panel USB 3.0 Ports
16	JSMB1: System Management Bus Header
17	JBT1: CMOS Clear
18	BT1: Onboard Battery
19	JPME2: ME Manufacturing Mode
20	JPW1: 24-pin ATX Power Connector
21	JPV1: 4-pin 12V DC Power Connector
22	DIMMB1~DIMMA2
23	USB6: USB 3.0 Type A Header
24	LED1: Power LED
25	JPH1: 4-pin Power Connector for HDD use
26	JMD1: M.2 B-Key PCIe3/SATA3/USB3 Connector
27	I-SATA0: Intel® PCH SATA 3.0 Ports (I-SATA0: SuperDOM)
28	I-SATA1: Intel® PCH SATA 3.0 Ports
29	JSD1: SATA Disk On Module (DOM) Power Connector
30	J1°C1/J1°C2: SMB to PCI-E Slots Enable/Disable
31	JTPM1: Trusted Platform Module (TPM)/Port 80 Connector
32	JIPMB1: System Management Bus Header
33	JWD1: Watch Dog Timer

System Features

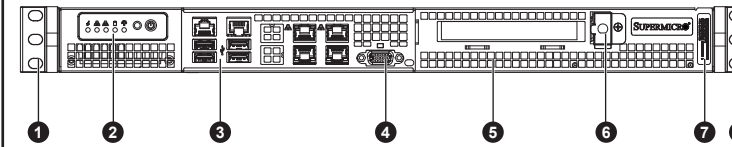
System Features	
Processor	Intel® Atom Processor C3958 in a FCBGA1310 type socket
Motherboards	A2SDV-16C-TLN5F
Chassis	CSE-505-203B
Memory	Supports up to 256GB Registered ECC RDIMM and DDR4-2400MHz, or up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400MHz in four DIMM slots
Chipset	System on Chip
Expansion Slots	One PCI-E 3.0 x8 slot M.2: one M-Key and one B-Key: M-Key Form Factor: 2242/2280 Interface: PCI-E 3.0 x2 SATA B-Key Form Factor 3042/2280 Interface: PCI-E 3.0 x2 SATA/USB3
Drive Bays	Up to two SATA3 2.5" internal SSD drives
Power	200W AC 80Plus Gold power supply
Cooling	Three internal fixed 40 x 28 mm fans
Dimensions	(WxHxD) 17.2 x 1.7 x 9.8 in (437 x 43 x 249mm) 1U short-depth chassis

Rear I/O Ports



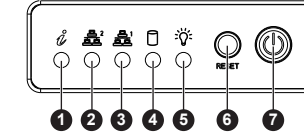
No.	Description	No.	Description
1	COM1	5	LAN 2-3
2	USB 3.0	6	LAN 4-5
3	LAN1/IPMI	7	VGA
4	USB 3.0		

Front View



Front Chassis Features		
Item	Feature	Description
1	Rail handle	Secures the chassis into the rack
2	Control Panel	Front control panel with LEDs and buttons
3	I/O Ports	Input/output ports
4	VGA Port	Video port
5	PCI-E	Position for expansion cards
6	Expansion Card Clip	Secures the expansion card to the chassis front
7	BMC Label	Unique BMC password label

Control Panel



Control Panel Features	
Item	Features
1	Informational LED
2	NIC2 LED
3	NIC1 LED
4	HDD LED
5	Power LED
6	Reset Button
7	Power

Front View



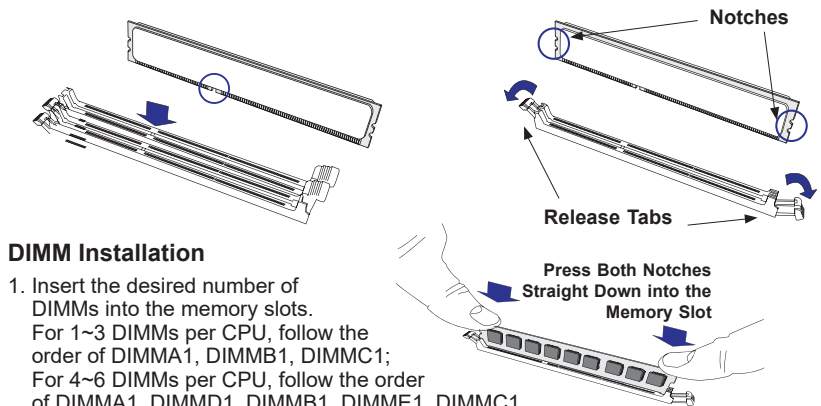
Rear Chassis Features		
Item	Feature	Description
1	Fan	Internal fans
2	Power Supply	200W AC Gold power supply

Memory

DIMM Module Population Configuration

For optimal memory performance, follow the table below when populating memory.

Memory Population (Balanced)				
DIMMA1	DIMMB1	DIMMA2	DIMMB2	Total System Memory
4GB	4GB			8GB
4GB	4GB	4GB	4GB	16GB
8GB	8GB			16GB
8GB	8GB	8GB	8GB	32GB
16GB	16GB			32GB
16GB	16GB	16GB	16GB	64GB
32GB	32GB			64GB
32GB	32GB	32GB	32GB	128GB
64GB	64GB			128GB
64GB	64GB	64GB	64GB	256GB



DIMM Installation

- Insert the desired number of DIMMs into the memory slots. For 1~3 DIMMs per CPU, follow the order of DIMMA1, DIMMB1, DIMMC1; For 4~6 DIMMs per CPU, follow the order of DIMMA1, DIMMD1, DIMMB1, DIMME1, DIMMC1, DIMMF1. For best performance, please use the memory modules of the same type and speed.
- Push the release tabs outwards on both ends of the DIMM slot to unlock it.
- Align the key of the DIMM module with the receptive point on the memory slot.
- Align the notches on both ends of the module against the receptive points on the ends of the slot.
- Use two thumbs together to press the notches on both ends of the module straight down into the slot until the module snaps into place.
- Press the release tabs to the lock positions to secure the DIMM module into the slot.

Beep Code

BIOS Beep (POST) Codes		
Beep Code	Error Message	Description
1 beep	Refresh	Circuits have been reset (Ready to power up)
5 short, 1 long	Memory error	No memory detected in the system
5 long, 2 short	Display memory read/write error	Video adapter missing or with faulty memory
1 long continuous	System OH	System overheat condition

REQUIRED: A speaker will be required

Caution

SAFETY INFORMATION

IMPORTANT: See installation instructions and safety warning before connecting system to power supply.
http://www.supermicro.com/about/policies/safety_information.cfm

WARNING:

To reduce risk of electric shock/damage to equipment, disconnect power from server by disconnecting all power cords from electrical outlets. If any CPU socket empty, install protective plastic CPU cap.

WARNING:

Always be sure all power supplies for this system have the same power output. If mixed power supplies are installed, the system will not operate.

For more information go to: <http://www.supermicro.com/support>

