

SUPERMICRO® SuperServer AS-2113S-WTRT Quick Reference Guide

Board Layout

| No. | Description | No. | Description |
|-----|---|-----|-------------------------------------|
| 1 | SATA0 Internal SATA Port | 9 | NVMe slots 8-9 / SATA slots 0-7 |
| 2 | SATA1 Internal SATA Port | 10 | NVMe slots 12-13 / SATA slots 8-15 |
| 3 | JSXB1A, JSXB1B Riser slots | 11 | DIMM slots E1~H2 |
| 4 | JSXB2 Riser slot | 12 | CPU slot |
| 5 | M.2-C1 M.2 Slot | 13 | Clear CMOS |
| 6 | M.2-C2 M.2 Slot | 14 | DIMM slots A1~D2 |
| 7 | Trusted Platform Module (TPM)/Port 80 connector | 15 | NVMe slots 8-15 |
| 8 | NVMe slots 10-11, & 14-15 | 16 | JSD1, JSD2 SATA DOM power connector |

Front View & Interface

| Slot | Description |
|---------|-------------------------------------|
| 0 ~ 9 | Hot-Swap U.2 NVMe Drive Bays |
| 10 ~ 15 | Hot-Swap U.2 NVMe/SATA3* Drive Bays |

*SATA3 support requires additional parts in optional parts list

| No. | Description |
|-----|---------------------------|
| 1 | Power Button |
| 2 | Reset Button |
| 3 | Power LED |
| 4 | NIC2 LED |
| 5 | Power Fail LED |
| 6 | HDD LED |
| 7 | NIC1 LED |
| 8 | Universal Information LED |

Rear View

| No. | Description |
|-----|---------------------------------|
| 1 | 1 PCI-E 3.0 x16 (FH/HL) Slots |
| 2 | 2 PCI-E 3.0 x8 (FH/HL) Slots |
| 3 | UID Switch & UID LED |
| 4 | VGA Port |
| 5 | 2 PCI-E 3.0 x8 (LP) Slots |
| 6 | 2 10GbBase-T LAN Ports |
| 7 | 4 USB 3.0 Ports |
| 8 | Dedicated LAN for IPMI |
| 9 | Serial Port |
| 10 | *Redundant Power Supply Modules |

*Full redundancy based on configuration and application load

Memory

Memory Support

The H11SSW-NT supports Up to 2 TB of ECC DDR4 2666 MHz speed, RDIMM/LRDIMM/3DS/NVDIMM memory in sixteen slots. Refer to the table below for additional memory information.

DIMM Population Guide

| Channel | | | | | | | |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| DIMM A1 | DIMM A2 | DIMM B1 | DIMM B2 | DIMM C1 | DIMM C2 | DIMM D1 | DIMM D2 |
| 4 DIMMS* | | | | | | | |
| ✓ | | | ✓ | | ✓ | | ✓ |
| 6 DIMMS | | | | | | | |
| Unbalanced, not recommended | | | | | | | |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 DIMMS | | | | | | | |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16 DIMMS | | | | | | | |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

*Note: To achieve optimal memory performance, a minimum of at least one DIMM for each channel pair in the system (e.g., A, C, E, G) is recommended.

Populating RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS DDR4 Memory Modules

| Type | DIMM Population | Maximum DIMM Capacity (GB) | | | Maximum Frequency (MHz) |
|------------|-----------------|----------------------------|-----------|-----------|-------------------------|
| | | 1 Channel | 4 Channel | 8 Channel | |
| RDIMM | 1R | 32GB | 128GB | 256GB | 2666 |
| | 2R | 64GB | 256GB | 512GB | 2400 |
| LRDIMM | 4R | 128GB | 512GB | 1TB | 2666 |
| | 8R | 256GB | 1TB | 2TB | 2666 |
| LRDIMM 3DS | 2R2H | 64GB | 512GB | 1TB | 2400 |
| | 2R4H | 128GB | 1TB | 2TB | 2400 |

Hard Drive Installation

Removing a Hot-Swap Drive Carrier from the Chassis

- Press the release button on the drive carrier, which will extend the drive carrier handle.
- Use the drive carrier handle to pull the drive out of the chassis.

Installing a Drive

- Remove the dummy drive, by removing the screws securing the dummy drive to the carrier. These screws are not used to mount the actual hard drive.
- Insert a drive into the carrier with the PCB side facing down and the connector end toward the rear of the carrier. Align the drive in the carrier so that the screw holes line up.
- Secure the drive to the carrier with four M3 screws, included in the chassis accessory box.
- Insert the drive carrier with the disk drive into its bay, keeping the carrier oriented so that the release button is on the right side. When the carrier reaches the rear of the bay, the release handle retracts.
- Push the handle in until it clicks into its locked position.

Beep Code

BIOS Error Beep (POST) Codes

| Beep Code/LED | Error Message | Description |
|-------------------|---------------------------------|---|
| 1 short | 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 |

CPU Installation

Processor Installation

- Removing the Processor Force Frame
- Raising the Force Frame
- Lifting the Rail Frame
- Removing the External Cap and PnP Cover Cap
- Inserting the Carrier Frame/CPU Package
- Lowering the Force Frame
- Securing the Force Frame

8. The Force Frame Secured

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>

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