



Supermicro CiB Quick Installation Guide

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Supermicro Storage Group

Scope

This document contains the basic information required to get the Supermicro® CiB up and running. More complete information is contained in the product manuals along with the documentation referred to below:

The product guides should be read in the following order

1. Supermicro CiB Quick Installation Guide
2. Supermicro CiB Initial Walkthrough Guide
3. Supermicro CiB with Windows 2012 R2 Best practices Guide

In addition Microsoft provides more in-depth information in the form of hard copy publications and online resources detailing Windows 2012.



Best practices and tips are highlighted in bold text with a “note icon” throughout the document!

Disclaimer

Information contained herein is provided with the best intent, however Supermicro cannot be held responsible for errors or omissions contained in this document.

Feedback is greatly encouraged.

All Trademarks respected and acknowledged.

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1. Cluster-in-a-Box – The Hardware

System configurations

This guide covers both the 16 bay SSG-6037B-CIB032 3U product supporting 3.5” hot-swap SAS drives (Figure 1-1) and the SSG-2027B-CIB020H, (Figure 1-2) which is a 24 bay 2U product supporting 2.5” hot-swap SAS drives. Both systems can support up to 4 x 937R-E2JB (Figure 1-3) expansion enclosures.



Figure 1-1 SSG-6037B-CIB032



Figure 1-2 SSG-2027B-CIB020H



Figure 1-3 937R-E2JB JBOD expansion Chassis

CiB Add on options

There are a number of add-on modules offered for Ethernet connectivity as shown in the table below.

Table 1 Add-on Board Options

Description	Part Number
Quad-port 1G	AOC-SG-i4
Dual-port 10G Base-T	AOC-STG-i2T
TDual-port 10G SFP+	AOC-STGN-125

The Super SBB design provides hot-swappable canisters for active components.

Hardware and Port Layout (Rear View)

Unpack the system carefully retaining the packaging and install the system into your rack.



Figure 1-4 shows a rear view of both models. Node locations in this document are left-to-right when the system is viewed from the front. Each system features a number of vacant PCI-e slots for additional functionality.

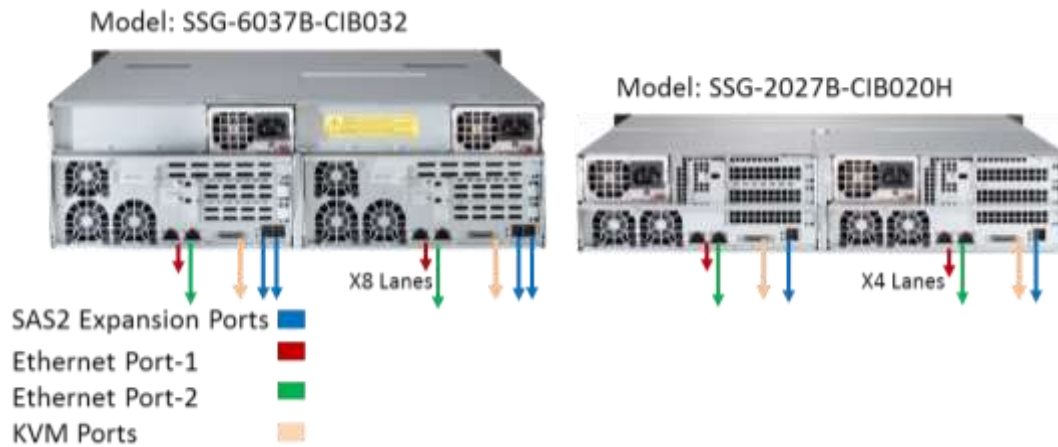


Figure 1-4 Rear View of CiB Models



Note: Node names may be swapped if server modules are relocated in another slot. Cluster-N1 and Cluster-N2 names are not bound to left or right server locations.

Network Cabling Configuration

Ethernet port 1 on the nodes is set for DHCP by default and should be connected to the public network and port 2 is set for heartbeat communications, as shown in Figure 1-5. In addition, there is an option to add 10 Gigabit Ethernet cards, as listed in Table 1 earlier.

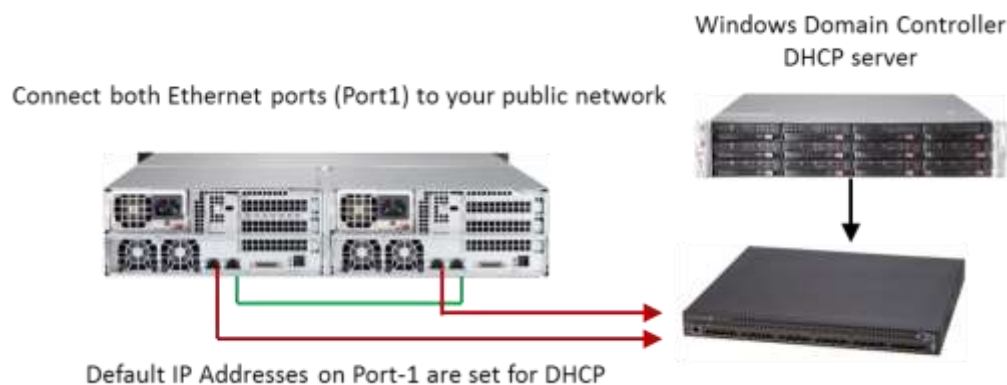


Figure 1-5 Rear View of Nodes Showing Ethernet Port Assignment

Quorum Disk and pool configuration

The CiB ships with a pre-configured storage pool and pre-provisioned quorum disk to simplify installation.

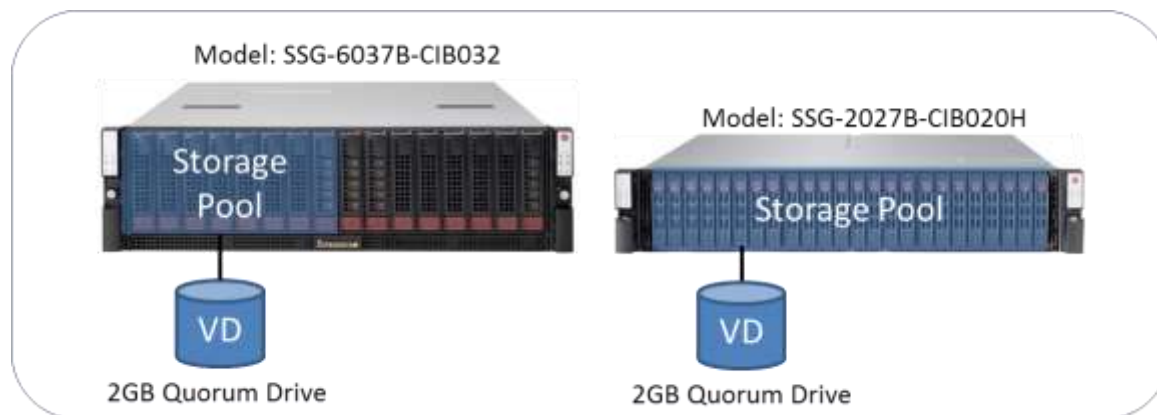


Figure 1-6 Default Storage Pool Configuration

The 3U model ships with 8 x HDDs and the 2U model ships with 4 x SSDs and 20 X HDDs. All disks are configured as a single pool by default along with a small capacity quorum disk.

Boot Device

Each node within the CiB has its own boot disk which is private and not sharable. This boot disk is not part of the removable front bay disks and is a SATADOM (SATA Disk on Module). The DOM is located internally on the mother board and is preinstalled for ease of deployment.

Hardware Connectivity steps

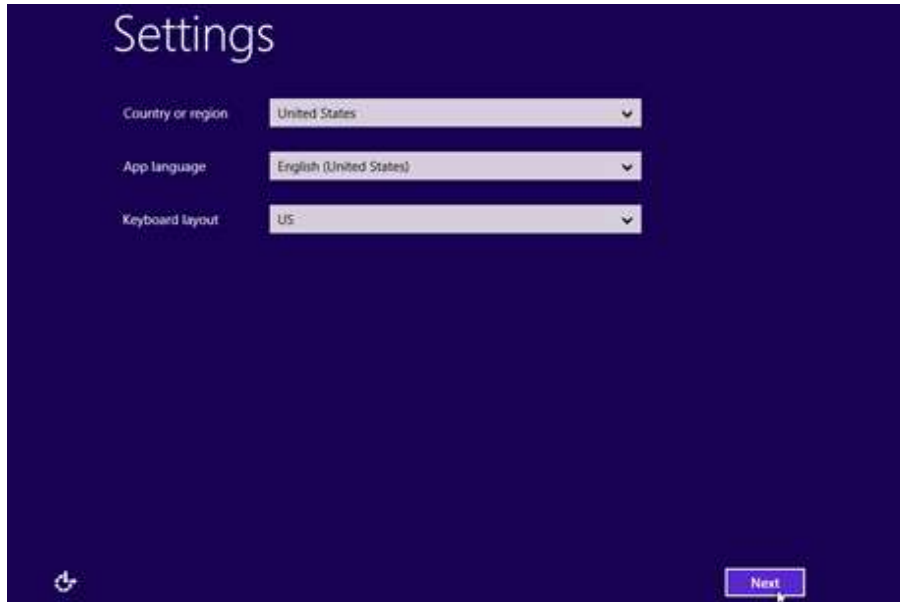
1. Connect the power cords to each node.
2. Connect the Network cabling as described above
3. (JBOD expansion only) Connect the SAS cables from the CiB expansion ports to the JBOD's SAS ports.
4. Connect the KVM adapter to the CiB.

2. Software and configuration

1. Connect a monitor, keyboard, mouse to the KVM dongle (supplied) to one (or both) of the cluster nodes.
2. Power on the system (make sure both nodes are fully inserted and powered on).



Note: The clustering setup is performed from a single node (configuration of the second node is performed through remote access), therefore switching between nodes is unnecessary.



3. Configure the regional information
4. Enter the product keys, Figure 2-1 shows where the Certificate of Authenticity labels are placed.

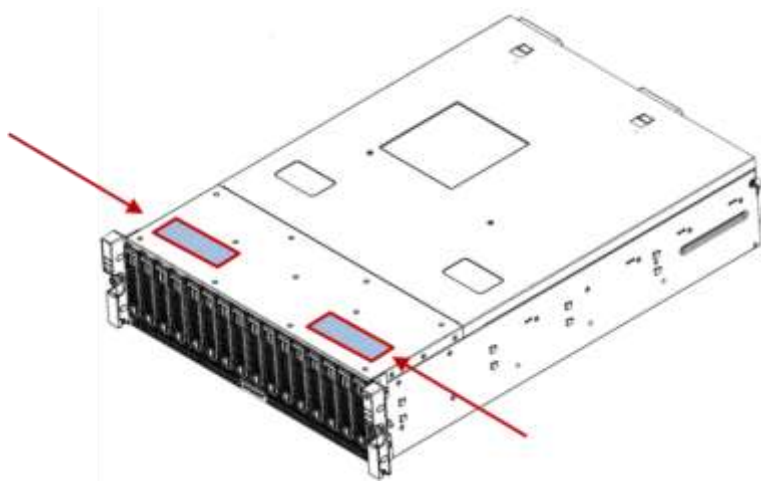
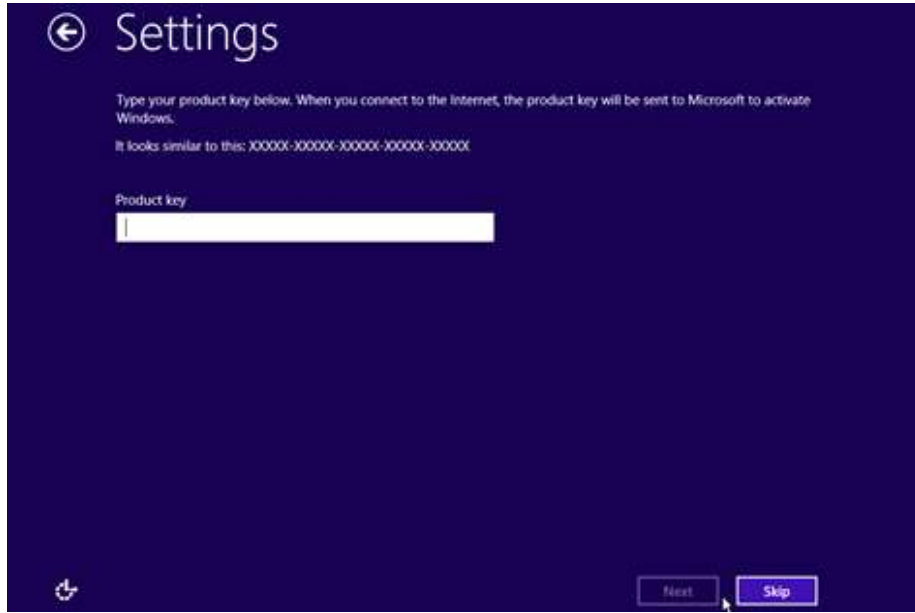
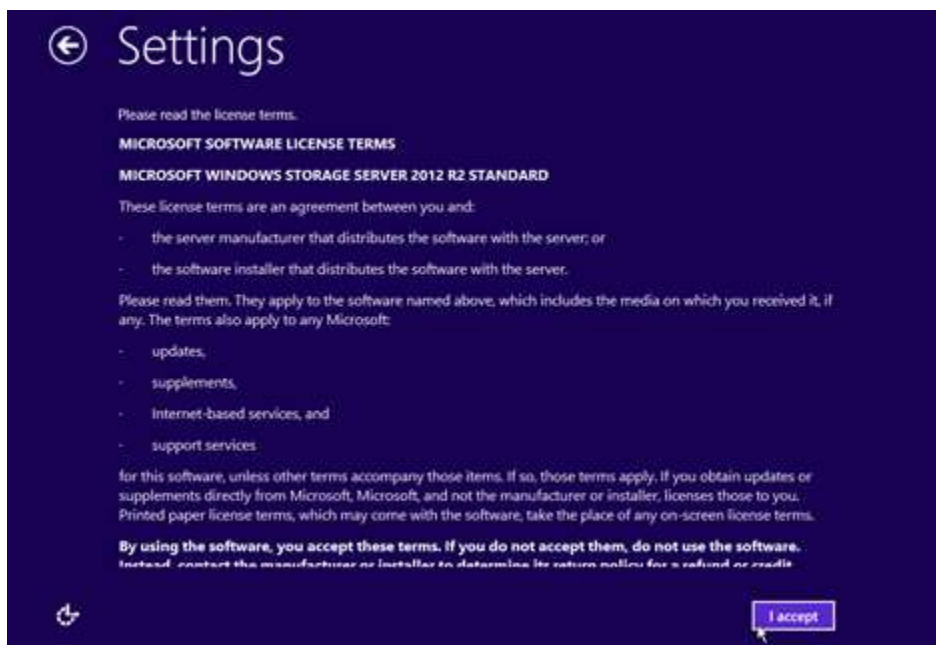


Figure 2-1 Top View Showing COA Labels



5. Accept the EULA



- After accepting the EULA, the node will automatically log in with the Administrator account and display the Initial Configuration Tasks (ICT) menu after approximately 20 seconds. Under the “View Connection Status” section of the ICT menu, the Connection Status should be “Connected.”

Default Password



Note: The default Administrator account password is (the text inside the quotes) - “Admin_123”. The Cluster OEM Setup expects this password to be unchanged in order to maintain a more convenient flow.



The remainder of the setup is covered in more detail in the Cluster Walkthrough Guide which details Cluster validation and Domain configuration.