

OVERVIEW

Designed for demanding virtualization and database workloads, the UCS B420 M4 combines a large memory

Video

CONFIGURING the SERVER

Follow these steps to configure the Cisco UCS B420 M4 Blade Server:

- *STEP 1 VERIFY SERVER SKU, page 8*
- *STEP 2 CHOOSE CPU(S), page 9*
- *STEP 3 CHOOSE MEMORY, page 11*
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- For systems shipping with E5-4600 v3 series processor family CPUs, DIMM speeds are as shown in [Table 5](#), [Table 6](#), and [Table 7 on page 13](#).

Table 5 DIMM Speeds for 2133-MHz E5-4600 v3 Series CPUs

DPC	DIMM Type
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STEP 7 ORDER A TRUSTED PLATFORM MODULE (OPTIONAL)

Trusted Platform Module (TPM) is a computer chip (microcontroller) that can securely store

Table 16 OSs and Value-Added Software (for 4-CPU servers) *(continued)*

PID Description	Product ID (PID)
VMW-VS5-ENT-2A	VMware vSphere 5 Enterprise for 1 CPU, 2 Yr Support Rqd
VMW-VS5-ENT-3A	VMware vSphere 5 Enterprise for 1 CPU, 3 Yr Support Rqd
VMW-VS5-ENT-4A	VMware vSphere 5 Enterprise for 1 Processor, 4 Year Support Rqd
VMW-VS5-ENT-5A	VMware vSphere 5 Enterprise for 1 CPU, 5 Yr Support Rqd
VMW-VS5-ENTP-1A	VMware vSphere 5 Enterprise Plus for 1 Processor, 1 Year Support Rqd
VMW-VS5-ENTP-2A	VMware vSphere 5 Enterprise Plus for 1 CPU, 2 Yr Support Rqd
VMW-VS5-ENTP-3A	VMware vSphere 5 Enterprise Plus for 1 Processor, 3 Year Support Rqd
VMW-VS5-ENTP-4A	VMware vSphere 5 Enterprise Plus for 1 Processor, 4 Year Support Rqd
VMW-VC5-STD-1A	VMware vCenter 5 Server Standard, 1 yr support requiredÆ
VMW-VC5-STD-2A	VMware vCenter 5 Server Standard, 2 yr support requiredÆ
VMW-VC5-STD-3A	VMware vCenter 5 Server Standard, 3 yr support requiredÆ
VMW-VC5-STD-4A	VMware vCenter 5 Server Standard, 4 yr support requiredÆ
VMW-VC5-STD-5A	VMware vCenter 5 Server Standard, 5 yr support requiredÆ

See

STEP 13 CHOOSE LOCAL KVM I/O CABLE* (OPTIONAL)

The local KVM I/O cable ships with every UCS 5100 Series blade chassis accessory kit. The cable provides a connection into the server, providing a DB9 serial connector, a VGA connector for a monitor, and dual USB ports for a keyboard and mouse. With this cable, you can create a direct connection to the operating system and the BIOS running on the server.

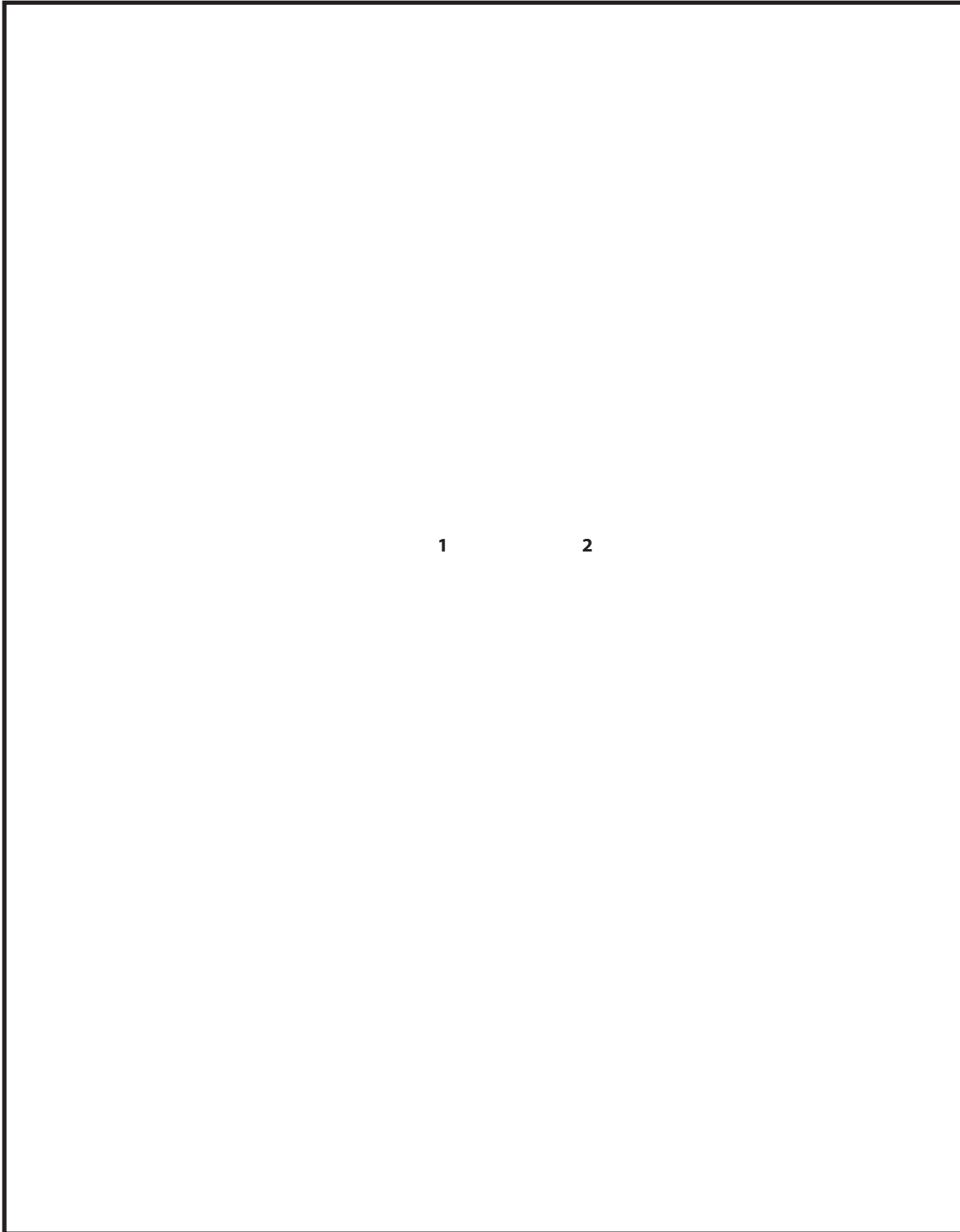
The local KVM I/O cable ordering information is listed in [Table 24](#).

Table 24 Local KVM I/O Cable

DIMM and CPU Layout

Memory is organized as shown in *Figure 8*.

Figure 8 UCS B420 M4 Memory Organization



A quick reference for the recommended DIMM population order is shown in [Table 26](#)

Figure 11

In *Figure 15*, two ports from the VIC 1340/1240 are channeled to 2208XP Fabric Extender A and two are

In *Figure 20*, the Storage Accelerator installed in adapter slot 2 acts as a pass-through device, channeling two ports to each of the Fabric Extenders. In addition, two ports from the VIC 1340 adapter are channeled to 2208XP Fabric Extender A and two are channeled to 2208XP Fabric Extender B. The result is 40 Gb of

In *Figure 21*, one port from the VIC 1340/1240 is channeled to 2204XP Fabric Extender A and one is channeled to 2204XP Fabric Extender B. The result is 10 Gb of bandwidth to each Fabric Extender.

Figure 21

