

Cisco UCS Mini: Powering Applications



Are you looking for a unified computing solution to deliver the application performance you need for your small or medium-sized business or for the edge of your large IT environment? Cisco UCS® Mini is a total computing solution powered by Intel® Xeon® processors and 10 Gigabit networking that delivers enterprise capabilities in a small, efficient form factor. Cisco and its partners have a wide range of validated designs and reference architectures for your applications to get you up and running quickly, with less risk, and with a system that's easy to manage.

Desktop Virtualization

Small and medium-sized businesses are seeking ways to run a compact, self-contained computing infrastructure that is economical and efficient and that offers the potential for growth.

Desktop virtualization infrastructure (VDI) can help meet these challenges. However, for midsize customers, one of the main barriers to entry is the capital expense required to deploy proof-of-concept (PoC,) pilot, and development environments.

To overcome these entry-point barriers, Cisco has developed self-contained desktop virtualization solutions, including:

- “Cisco UCS Mini, Nimble Storage, and Citrix XenDesktop 7.6 500-Seat, Mixed Workload on Cisco UCS B200 M3 Blade Servers”: <http://cs.co/Mini-VD1>
- “Cisco UCS Mini, Nimble Storage, and VMware Horizon 6 with View Mixed Workload on Cisco UCS B200 M3 Blade Servers” for 500 Seats: <http://cs.co/Mini-VD2>

Cisco UCS Mini with Microsoft Applications

Cisco UCS Mini delivers enterprise capabilities in a small, efficient form factor for Microsoft Windows Server and Microsoft workloads such as SQL Server, SharePoint, Exchange, and Private Cloud.

For more information, see:

- Cisco UCS Mini for Nimble Storage SmartStack with Microsoft Applications: <http://cs.co/Mini-SS-MS>
- Optimize Microsoft Environments with Cisco UCS Mini Solution Overview: <http://cs.co/Mini-MS>

Cisco UCS Mini for SAP and SAP HANA

SAP has a solid footprint with midmarket customers. Cisco UCS Mini is an excellent platform for these SAP environments as well as for entry-level single-node SAP HANA solutions.

A full chassis with eight Cisco UCS B200 M4 Blade Servers and Intel Xeon processor E5-2699 v3 CPUs provides up to 689,872 SAP Application Performance Standard (SAPS) performance. A midsize company with a standard three landscapes for several SAP business applications would require about 200,000 SAPS, so Cisco UCS Mini can easily meet business needs. Large enterprises need performance of about 400,000 SAPS.

Two Cisco UCS C220 M4 or C240 M4 Rack Servers complete the solution, hosting the entry-level SAP HANA appliance with SAP HANA Tailored Datacenter Integration (TDI) for production and development landscapes and high availability and disaster recovery. The maximum database size today is 768 GB. According to SAP, 80 percent of all customer databases will be below 1 terabyte (TB) after compression.

<http://cs.co/Mini-SAP-AAG>



Oracle's JD Edwards EnterpriseOne 9.1

The goal of integrated solutions is to create simplified deployment units that centralize and reduce infrastructure management complexity. This approach helps your staff be more efficient and your business more agile, and it helps you reduce your operating costs. Cisco, Nimble Storage, and Oracle combine best-in-class technologies to deliver flexible Nimble Storage SmartStack solutions for Oracle databases and applications.

For more information, see <http://cs.co/Mini-JDE>.

Branch-Office Solutions

The Cisco UCS Mini Branch-Office Solution for EMC VSPEX is a prevalidated and modular architecture built with proven best-in-class technologies. Because EMC VSPEX solutions are rigorously tested, the solution drastically reduces server virtualization planning and configuration overhead while contributing to IT transformation through faster deployments, greater choice of components, and flexibility with reduced risk.

Cisco UCS Mini Branch-Office Solution for EMC VSPEX offers two options:

- With VMware vSphere 5.5: <http://cs.co/Mini-BO-vSphere>
- With Microsoft Windows Server 2012 R2 Hyper-V: <http://cs.co/Mini-BO-HyperV>

Customers without EMC storage who need a cost-effective deployment of computing, storage, and networking resources can use Microsoft Windows Server 2012 R2 with storage services for Cisco UCS Mini.

<http://cs.co/Mini-MS-Storage-Server>

FlexPod with Cisco UCS Mini

By moving away from application silos and to shared infrastructure that can be quickly deployed, customers increase agility and reduce costs. Cisco and NetApp have partnered to deliver FlexPod, which uses best-in-class storage, server, and network components to serve as the foundation for a variety of workloads, enabling efficient architectural designs that can be quickly and confidently deployed.

For an overview of Cisco UCS Mini solutions for FlexPod, start with the [FlexPod with Cisco UCS Mini Design Guide](#).

There are FlexPod Design Guides for Both Fibre Channel and IP-Based Storage.

Fibre Channel

- [FlexPod Express with Cisco UCS Mini and VMware vSphere 5.5](#)
- [FlexPod Datacenter with Cisco UCS Mini and VMware vSphere 5.5](#)

IP-Based Storage

- [FlexPod Express with Cisco UCS Mini and VMware vSphere 5.5 with IP-Based Storage](#)
- [FlexPod Data Center with Cisco UCS Mini and VMware vSphere 5.5 with IP-Based Storage](#)

Software-Defined Storage Solutions

In large data centers, storage solutions typically use large-scale SANs. Frequently these solutions leave smaller deployment models unaddressed.

StorMagic SvSAN is an efficient, flexible, and modular architecture that provides a virtual storage appliance (VSA) for Cisco UCS Mini using a simple two-server solution.

For more information, see <http://cs.co/Mini-StorMagic-WP>.

For More Information

For more information about the Cisco UCS Mini solution, please visit <http://www.cisco.com/go/ucsmi> or contact your local Cisco® representative.