Modernize Your Electronic Medical Record Deployments

With Cisco UCS C890 M5 Rack Servers and Epic software

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The more medical records you have, the more you need Cisco UCS® C890 M5 Rack Servers.

Healthcare providers, medical clinics, and small and large hospitals alike use Epic applications to manage electronic health records (EHRs). Whether you are a small or midsize organization or one that supports tens of millions of Epic I/O operations, you need a modern platform that makes it easy to grow your computing power and keep pace.

Highlights

- Migrate to a modern platform
- Support expanding Epic EHR workloads and applications
- Get patient records to clinicians faster
- Accelerate Epic InterSystems IRIS databases
- Configure systems with memory mirroring to increase data availability

Cisco UCS C890 M5 Rack Servers

Designed with Epic deployments in mind, Cisco UCS C890 M5 Rack Servers deliver the processing and memory capacity you need to deliver quality patient care. With eight Intel® Xeon® Scalable processors and terabytes of memory, you can migrate your Epic applications and data solutions to an agile platform that delivers high availability, simplifies management, and allows for future growth.

The right platform for Epic deployments

Medium- and large-scale Epic workloads need a lot of processing power to manage production databases. Designed to support tens of thousands of concurrent users and millions of operations, the Cisco UCS C890 M5 server provides a scalable foundation for robust Epic application deployment. With the capability to support virtualized deployment, these innovative systems deliver the capacity needed to support Epic applications.

Massive processing power

As the number of medical records grows, backend InterSystems IRIS databases must deliver high performance to keep Epic applications and data silos connected. Cisco UCS C890 M5 Rack Servers deliver massive processing power to accelerate database operations. Large amounts of data can be moved and stored close to these processors to reduce latency and support very large EHR data sets. Unleashing the power of eight high-performance CPUs and reducing bottlenecks results in fast throughput with high quality of service (QoS).

With these powerful servers, you can:

- Quickly retrieve, process, and store EHR data
- Accelerate information flow for patient care
- Meet Epic Honor Roll Good Maintenance Grant Program performance requirements
- Distribute data-loading and workload tasks across more processors and cores

Built for performance and availability

Our base configuration of 1.5 TB of memory is ideal for midsize SMP Epic workloads up to 24 million GRefs (global references per second). Because of the mission-critical nature of patient care, we recommend a 3 TB configuration that includes memory mirroring. This protects against memory failures that could impact your ability to deliver patient care. For large Enterprise Cache Protocol (ECP) workloads up to 75 million GRefs, we similarly support the 1.5 TB base configuration but recommend 3 TB with memory mirroring.

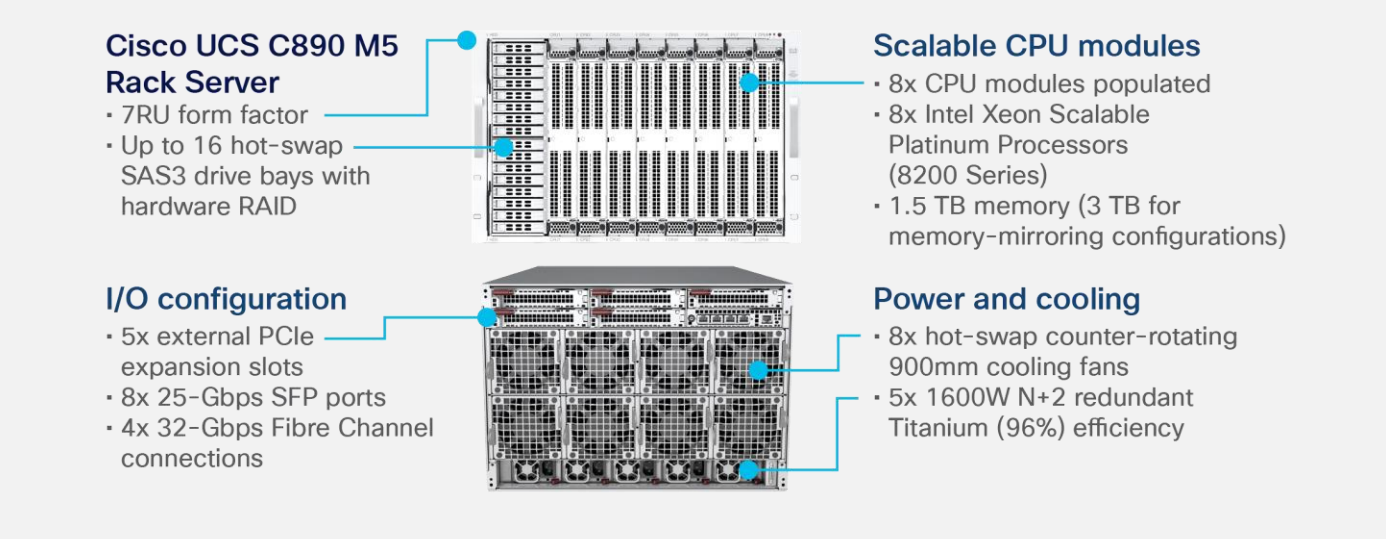

Figure 1.
The Cisco UCS C890 M5 Rack Server includes eight CPUs and up to 3 TB of memory for Epic deployments.

Cisco UCS C890 M5 for Epic deployments

- Eight Intel Xeon Scalable Platinum Processors (8200 Series) deliver high performance for demanding Epic workloads.
- Built-in artificial intelligence (AI) acceleration, advanced security technologies, and fast processing make these servers ideal for medium- to large-scale Epic deployments.
- Optimization for typical Epic deployments provides 1.5 TB of memory so that critical information can be instantly available (3 TB for memory-mirrored deployments).
- Base configurations support massive I/O capabilities, and multiple PCIe slots and Fibre Channel connections provide options for expansion.

Easy, flexible deployment

Unlike traditional solutions that result in technology silos, Cisco solutions bring consistency and flexibility to Epic EHR deployments (Figure 2).

- For smaller organizations, Cisco HyperFlex™ systems are an ideal platform for running the entire Epic application deployment.
- Organizations with larger deployments today, or mid-size deployments that may grow over time, can deploy Cisco UCS C890 M5 servers with Cisco HyperFlex systems for a unified approach. For example,

you can run operational databases on Cisco UCS C890 M5 servers and Epic Hyperspace on Cisco HyperFlex systems, to allow large-scale applications and databases to take advantage of the underlying system capabilities and performance characteristics of different types of servers.

- Very large Epic environments with millions of Epic I/O operations and thousands of users can use Cisco UCS C890 M5 servers for end-to-end deployment to facilitate patient care.

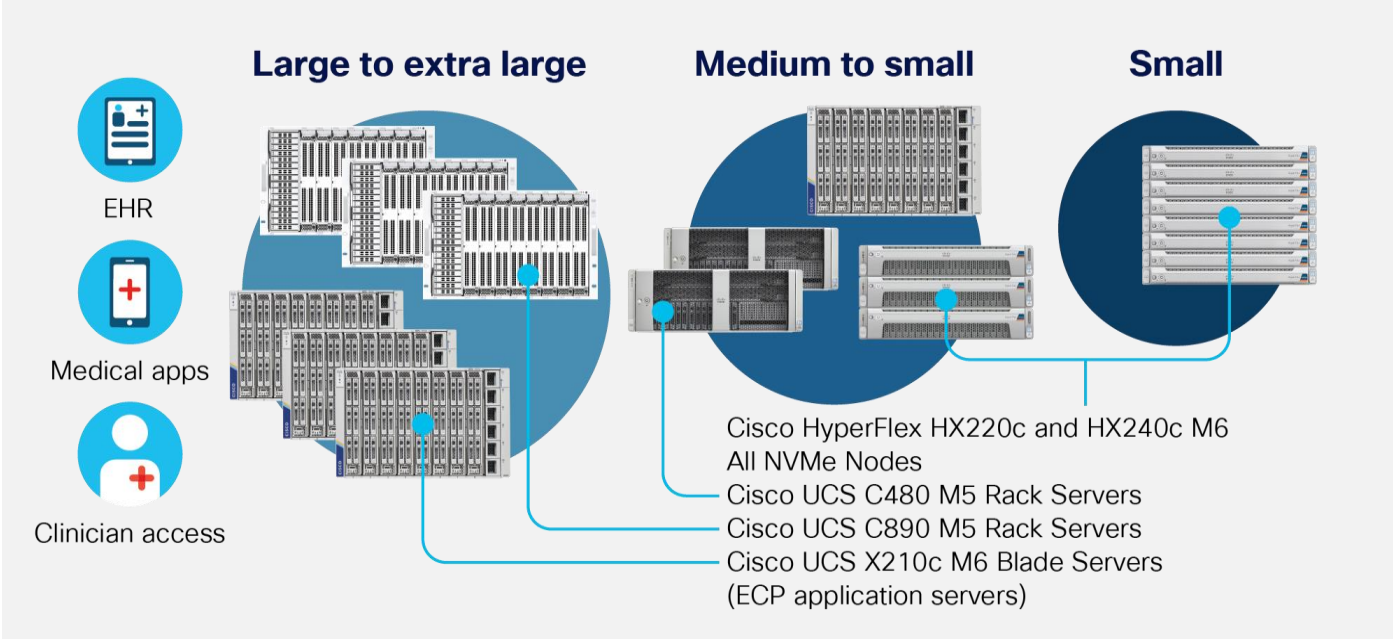

Figure 2.
Cisco solutions support small- to large-scale Epic EHR deployments with scalable performance.

The Intel value

Cisco UCS C890 Rack Servers are powered exclusively by Intel Xeon Platinum Processors (8200 Series).

- Only x86-architecture processors that can scale to power 8-socket systems such as the Cisco UCS C890 M5
- Balanced architecture with built-in acceleration capabilities
- Exceptional multisocket processing performance that helps Epic EHR applications and InterSystems IRIS database workloads perform well
- Advanced security features, including trusted, hardware-enhanced data service delivery

Simplify management

Simplifying the integration and management of new servers in your environment continues to be a focus at Cisco. We recognize the importance of easy and efficient ongoing administration. That's why Cisco UCS C890 M5 Rack Servers offer the following management tools:

- Cisco Intersight™ cloud operations platform
- CLI- and GUI-based interfaces
- IPMI-based software
- Remote KVM capabilities

Cisco Intersight is a software-as-a-service platform that is composed of a modular set of services that bridge applications and infrastructure to meet your specific needs. A single management interface makes it easy to manage your infrastructure lifecycle from a single location, including Cisco UCS C890 M5 Rack Servers, other Cisco® modular, blade, and rack servers, Cisco converged infrastructure solutions, and third-party endpoints.

Deploy and migrate with ease

Cisco has extensive experience working with customer and implementation partners. Together, we can help you you transition your Epic deployments to Cisco UCS C890 servers. Our deployment and migration services can advise, implement, and optimize your solution. We provide architectural design services, deployment services that get your Epic environment up and running, and we provide managed maintenance and support services.

In addition to the standard three-year hardware warranty, contracted support services from the Cisco Technical Assistance Center (Cisco TAC) can provide up to 24/7 on-site support within four hours. You can gain a 24-hour primary point of contact, product solution and interoperability expertise, priority response, and product support team coordination.

Manage the transition

If you have a rapidly growing ECP deployment or simply want to transition from SMP solutions, Cisco UCS C890 M5 Rack Servers can help. These innovative systems offer the processing power and large-memory configurations you need to deliver data availability and accelerate workload performance for your clinical staff. Let us show you how.

Learn more

- Cisco UCS C890 M5 Rack Server
- Cisco Hyperconverged Infrastructure for End-to-End Epic EMR
- Cisco blogs for Epic

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