



CyberServe EPYC Servers

Release Date:
Q1 2019

Suitable For:
Virtualised Infrastructure, Cloud Environments

Tags:
CyberServe, AMD EPYC 7000

Introduction:

The ideal data centre solutions for any business looking to maximise performance while minimising cost. The systems in this range possess scorching fast speed, high adaptability and lockdown security.





Dual Processor Data Centre-Class Server

Broadberry's revolutionary range of CyberServe EPYC rackmount server solutions are based on dual AMD EPYC processors that feature up to 2 processors per system. That delivers up to 64 cores, 128 threads and 128 lanes of PCIe.

This powerful range of server appliances are based on dual AMD EPYC 7000 series processors and are configurable with up to a terabyte of DDR4 RAM and 64 high performance processing cores. This range of enterprise-class servers is ideal for dealing with the demanding RAM intensive applications like database management and analytics, virtualised infrastructure and cloud environments.

Due to the impressive power they deliver, our CyberServe EPYC range of server solutions are perfect for super high-intensity applications, including:

- Database Management and Analytics
- Private/Hybrid Cloud Environments
- Virtualised Infrastructure
- Clustering Server

At A Glance:

- System-on-chip design
- Up to 32 AMD Zen cores
- Up to 16 DIMMS (2TB) of memory per socket.
- 8 memory channels for higher bandwidth
- 128 lanes of PCIe bandwidth
- Server controller hub

Dedicated, embedded security processor featuring secure boot and full memory encryption through on-chip memory controllers.





Advantages of using Broadberry CyberServe EPYC Servers

The Broadberry CyberServe EPYC range features blistering levels of performance and efficiency. Maximising performance and minimising cost, these systems bring the perfect balance to your data centre. Based on arguably the best cost-effective processor available on the market, you will enjoy the best balance of resources drives with rightsized compute for all workloads.

If you are looking for a super powerful system that will greatly boost the overall performance of your data centre while also contributing to decreasing overall costs, this is the ideal server appliance for you.

Higher Performance

This range of AMD EPYC based rackmount servers will allow your business to enjoy remarkably high levels of performance. The AMD EPYC processor family is an excellent option for HPC and has been built to promote balancing the ratio of cores, memory and I/O bandwidth. Featuring enhanced core density, these solutions are able to provide hugely parallel performance by utilising its supported 8 to 32 cores per socket.

Striking the ideal balance of cores/threads, security, I/O bandwidth and memory to provide the amazingly fast performance for many HPC workloads. Broadberry servers powered by EPYC processors deliver a superb solution for even the most demanding of HPC

Security

As this range is based on the latest AMD EPYC processors, the solutions in this range enjoy the advantages that come with that. AMD EPYC processors feature an embedded security processor, meaning full memory encryption without the need for any changes to your applications.

AMD EPYC support three main categories of security features.

With **AMD Secure Root-of-Trust technology** you can ensure protection from rootkits/bootkits that can insert malicious code prior to an OS loading. Via the creation of a hardware root of trust, only known and trusted software will be allowed to load and run. This protection extends from the initial boot load through the BIOS load.

AMD Secure Run Technology protects the system from being exposed to methods of attack like memory scraping and cold boot attack that can be implemented if data running in the main system memory is failed to be encrypted. With SME (Secure Memory Encryption) the system memory is encrypted and with SEV (Secure Encrypted Virtualisation) the hypervisor and guest virtual machines are isolated to prevent access to data in shared guest data areas.

Migrating VMs whether simply within the data centre, to off-premises private cloud or to the public cloud can be very insecure. With **AMD Secure Move Technology** servers will be able to establish a secure channel between them as well as send memory encryption keys to the remote platform.





World Records

The unbelievable performance of the AMD EPYC x86 SoC has set new performance world records on SPEC CPU floating point benchmarks, completely revolutionising standards for 2-socket multithreaded floating-point performance.

The ground-breaking AMD EPYC x86 SoC is the very first dedicated security processor embedded in an x86 architecture server SoC. It also features the highest core count in an x86 architecture server processor, the largest memory, the most memory bandwidth as well as the greatest I/O density.

Zen Architecture

The processors powering the CyberServe range of AMD EPYC dedicated servers is built on the Zen architecture. This architecture is designed to increase the systems efficiency and performance in high-intensity situations.

Flexibility & Scalability

Our CyberServe solutions are very flexible and very scalable, adeptly adapting to the changing situations in your data centre as time goes on and maintaining high levels of efficiency and performance as your business demands continue to evolve.

CPU Model	EPYC 7000 Series
Sockets	2
Total Cores	64
Total Memory Channels	16
Total Populated Memory (16GB DIMM)	256
Memory Frequency	2400
Total PCIe gen3 lanes to CPUs	8 X 16 = 128

Why Choose Broadberry?

Through almost 3 decades of hard work, consistency and reliability, we have established ourselves as one of the world's top providers of server technology. We are proud to have delivered storage technology to some of the planet's largest organisations including the likes of the BBC, Sky, Virgin, Toshiba, Toyota, The University of Oxford, The University of Cambridge, SONY, Disney, NASA and more.

We aim to provide the highest quality solutions for the very best prices. Unlike many of the brands in this industry we never take advantage of customers by charging sky high rates for our solutions. Our objective is to be the best of both worlds, providing products that meet the highest standards of excellence while also providing you with impressively low prices.

NOW FASTER THAN EVER

64

Cores

4TB

Memory

128

PCIe Lanes

8

I/O Hubs



Atom Servers

Perfect Appliance Servers the CyberServe range of Intel Atom based rack servers are designed for light processing tasks.



Xeon E Servers

Superb Business Class Servers, an ideal fit for companies looking for an affordable and efficient system.



AMD EPYC Servers

Perfect for data centre servers the revolutionary CyberServe EPYC range of high-performance servers are built for flexibility, performance and security.



Xeon SP Servers

Perfect Enterprise-Class Servers delivering significant benefits in performance, power efficiency, virtualisation, and security. Servers are configurable with up to 3TB DDR4 RAM and 56 processing cores.



Storage Servers

Configure From £1,078

Multi award-winning, enterprise-grade storage solutions used by the world's top organisations.

As-well as thousands of SMBs for everything from backup and replication to high-availability storage.



Rackmount Servers

Configure From £434

Year-after-year voted the best servers available by the most influential IT brand in the UK.

Our CyberServe range of servers are used by all of the UK's top universities and thousands of SMBs.



Workstations

Configure From £234

Ultra high performance workstations built for the most demanding applications.

Our CyberStation range boasts everything from silent workstations to GPU supercomputers.

Trusted by the Worlds Biggest Brands

We have established ourselves as one of the biggest storage providers in the UK, and since 1989 supplied our server and storage solutions to the world's biggest brands. Our customers include:

