≡Broadberry™

CyberServe Xeon E Storage Servers

Release Date:
Q1 2019

Suitable For:
Business Servers

Tags:
CyberServe, Intel, Xeon E

Introduction:

An ideal fit for companies looking for an affordable and efficient system, the CyberServe Xeon E range is designed to be configurable with up to 64GB DDR4 RAM, with a single processor. The CyberServe Xeon E range is based on Intel Xeon processors.

Features:

- Based on the Intel Xeon E Processor Range.
- Boasting up to 6 cores and 12 threads.
- Significantly enhanced efficiency and performance.
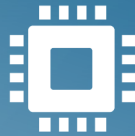- Features up to 40 lanes of PCIe for storage, graphics and network expandability.

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www.broadberry.co.uk

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CyberServe Xeon E

PERFORMANCE IMPROVEMENTS*

UP TO
1.36x Faster

FEATURES UP TO
50% More Cores

OPTIMISED FOR
Small Businesses

FEATURES UP TO
64GB DDR4 ECC 2666

SUPERFAST
Onboard M.2 Expansion Slots

BUILT-IN SECURITY
Trusted Platform Module

CyberServe Xeon® E   intel XEON inside

Intel Xeon E Processors feature enhancements in speed, memory, security and reliability.
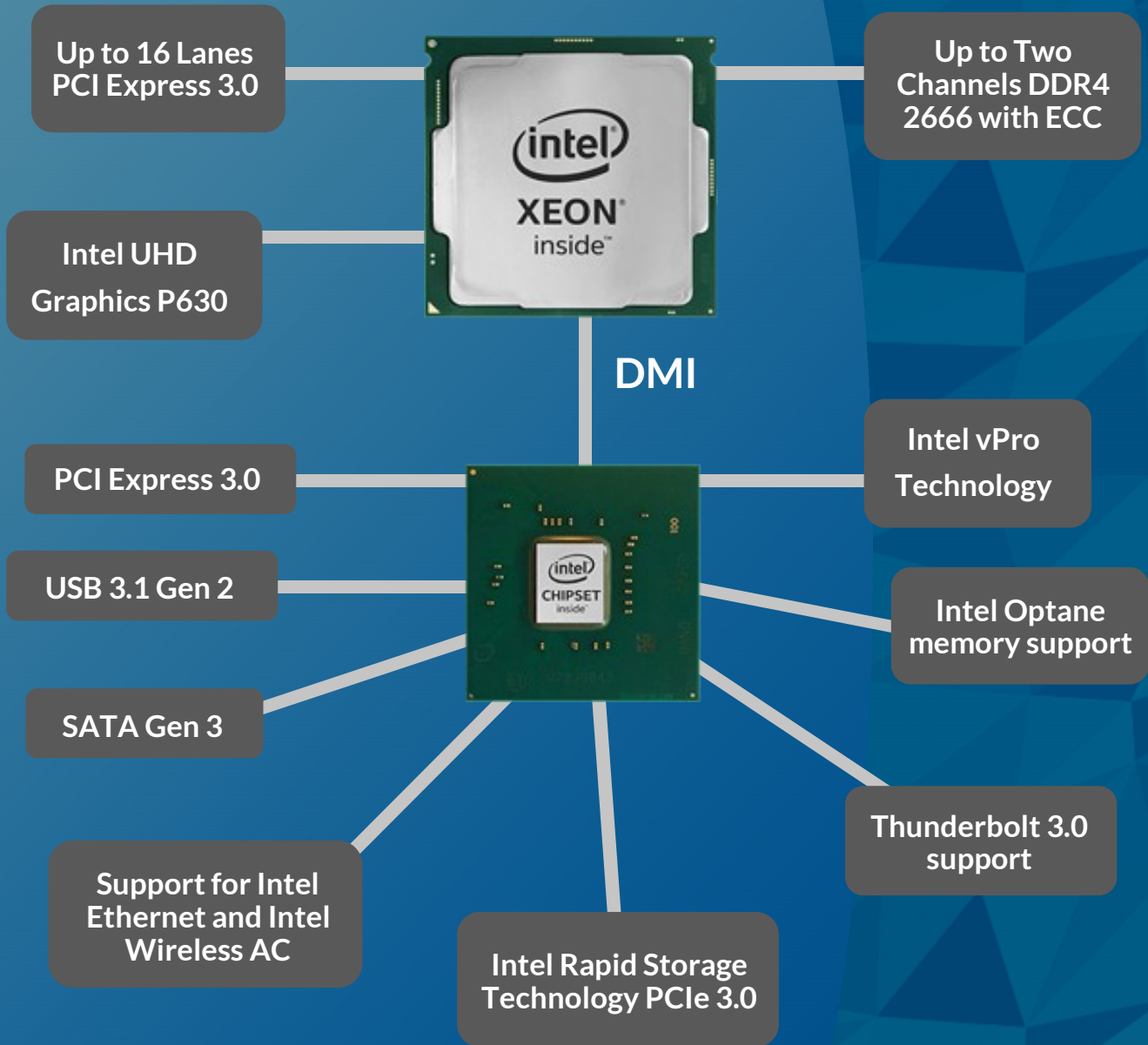
Broadberry CyberServe Xeon E servers are ideal for small businesses looking for affordable but powerful systems.

Features

- Up to 6 Cores
- Up to 12 threads
- Up to 64GB DDR4 ECC 2666 MHz memory
- Intel Hyper-Threading Technology
- Up to 40 PCI Express 3.0 lanes
- Support for Intel Optane memory
- Intel vPro Technology

*In Comparison To Previous Generation Intel Xeon E3

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CyberServe Xeon E

ESSENTIAL PERFORMANCE

Up to 16 Lanes PCI Express 3.0

Intel UHD Graphics P630

Up to Two Channels DDR4 2666 with ECC

intel XEON inside™

DMI

PCI Express 3.0

USB 3.1 Gen 2

SATA Gen 3

intel CHIPSET inside®

Intel vPro Technology

Intel Optane memory support

Thunderbolt 3.0 support

Support for Intel Ethernet and Intel Wireless AC

Intel Rapid Storage Technology PCIe 3.0

CyberServe Xeon® E

intel XEON inside

The Broadberry range of Intel Xeon E powered CyberServe servers provide essential performance for entry level servers and are ideal for smaller businesses looking for the perfect business server. The Intel Xeon E processors are available with integrated Intel UHD Graphics technology.
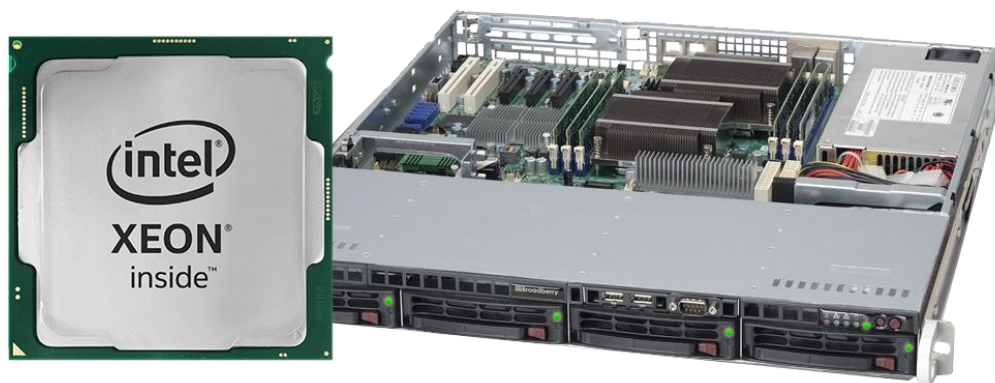
The Xeon E processors powering these solutions provide key performance and visuals to aid the requirements of businesses worldwide. They deliver cloud computing, big data insights, real-time analytics and processing for mission-critical data.

To handle todays workloads, a server solution capable of impressive performance is necessary. Broadberry's Intel Xeon E based servers can be configured to be optimised perfectly to your individual business needs.

Broadberry servers powered by Intel Xeon processors meet the greatly diversified demands of professionals in areas such as media and entertainment, engineering, architecture and financial services.

Based on single Intel Xeon E processors and configurable with up to 64GB of RAM, Broadberry CyberServe rack server solutions are ideal for these applications:

- Small Business Server
- File & Print Server
- Database Server
- Mail Server

NOW FASTER THAN EVER

1.36x
FASTER
PERFORMANCE

33%
MORE
CORES

25%
MORE
THREADS

25%
MORE
CACHE

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Intel Xeon E Processors

Model	Cores	Max Turbo Frequency	Processor Base Frequency	Cache	Processor Graphics
Intel® Xeon® E-2186G Processor	6	4.70 GHz	3.80 GHz	12 MB SmartCache	Intel® UHD Graphics P630
Intel® Xeon® E-2186M Processor	6	4.80 GHz	2.90 GHz	12 MB SmartCache	Intel® UHD Graphics P630
Intel® Xeon® E-2176G Processor	6	4.70 GHz	3.70 GHz	12 MB SmartCache	Intel® UHD Graphics P630
Intel® Xeon® E-2176M Processor	6	4.40 GHz	2.70 GHz	12 MB SmartCache	Intel® UHD Graphics P630
Intel® Xeon® E-2174G Processor	4	4.70 GHz	3.80 GHz	8 MB SmartCache	Intel® UHD Graphics P630
Intel® Xeon® E-2146G Processor	6	4.50 GHz	3.50 GHz	12 MB SmartCache	Intel® UHD Graphics P630
Intel® Xeon® E-2144G Processor	4	4.50 GHz	3.60 GHz	8 MB SmartCache	Intel® UHD Graphics P630
Intel® Xeon® E-2136 Processor	6	4.50 GHz	3.30 GHz	12 MB SmartCache	
Intel® Xeon® E-2134 Processor	4	4.50 GHz	3.50 GHz	8 MB SmartCache	
Intel® Xeon® E-2126G Processor	6	4.50 GHz	3.30 GHz	12 MB SmartCache	Intel® UHD Graphics P630
Intel® Xeon® E-2124 Processor	4	4.30 GHz	3.30 GHz	8 MB SmartCache	
Intel® Xeon® E-2124G Processor	4	4.50 GHz	3.40 GHz	8 MB SmartCache	Intel® UHD Graphics P630

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Compatible With All Leading Operating Systems

ubuntu   open-e JovianDSS   Microsoft Hyper-V   openSUSE   ceph

nexenta   redhat   debian   vmware   archlinux

And More…

Affordable Business Grade Servers

Broadberry CyberServe solutions powered by the Intel Xeon E family deliver support for error-correcting code (ECC) memory, which improves data integrity and system reliability through auto data correction.
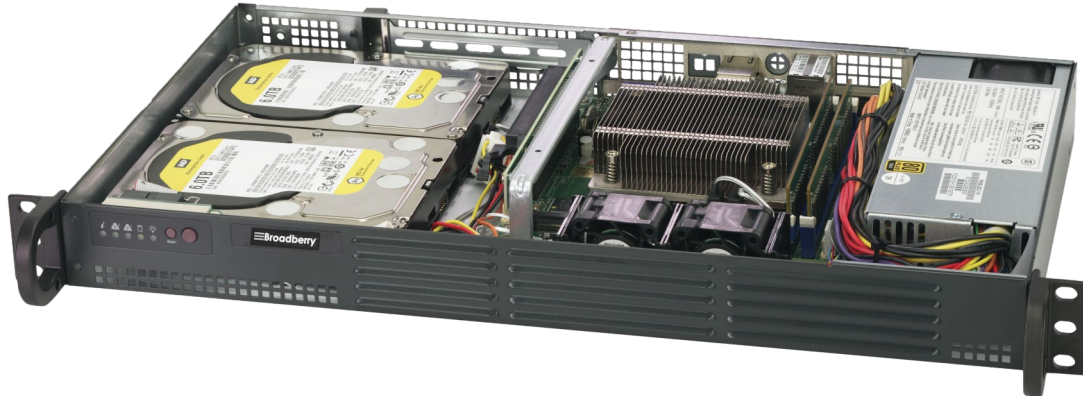
With Intel Data Protection Technology (with Secure Key), performance and security are improved for a wide range of security applications, allowing for quicker and higher quality cryptographic keys and certificates.

Intel Turbo Boost Technology provides huge performance just when you need it the most. It substantially accelerates processor and graphics performance for peak loads.

Intel Hyper-Threading Technology allows for faster performance for many demanding business applications.

With Intel Virtualisation Technology, you can enjoy higher performance for core virtualisation processes. There are also significant improvements to dynamic load balancing, disaster recovery, application performance, migration and provisioning.

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Performance

Business computing needs are continuing to evolve in complexity and sophistication. Servers that were fully capable in the near past are now not able to keep up with today's modern workloads.

Broadberry CyberServe solutions powered by Intel Xeon E processors feature cost-effective and enhanced performance. The Xeon E processors deliver 50% more cores/threads than their Xeon E3 predecessors. They also feature a newer and faster microarchitecture.

This robust server solution delivers leading price/performance.

Ideal For Small Businesses

Broadberry CyberServe Servers based on Intel Xeon E processors represent an astute investment that will enable your business to grow and evolve while also delivering a reliable and constantly available solution to safeguard your data and host critical business software. You may be a small business, but the value of your data is huge. With Broadberry server solutions you can be sure that your data will remain accessible and fully protected.

Our range of CyberServe Servers are great for small businesses which require a system that is extremely effective at performing a single job as an on-premise, dedicated server.

Security

Security is substantially improved with Intel Data Protection Technology (with Advanced Encryption Standard New Instructions). This happen through the encrypting of data, which is managed without the slowing of any response times. Broadberry storage servers also utilise advanced security technologies for secure cloud services.

Broadberry CyberServe Servers powered by the Intel Xeon E family of processors also feature a Trusted Platform Module (TPM).

TPM is a microcontroller which stores passwords, keys and digital certificates. It also supports Intel vPro Technology and Intel Trusted Execution Technology (Intel TXT).

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CyberServe Xeon® E

Feature-Rich IPMI Included In All Cyber-Serve Xeon E Servers

IPMI 2.0 based management

- BMC stack with a full IPMI 2.0 implementation
- Hardware health monitor
- Remote power control Keyboard, Video & Mouse Console Redirection with multi language support

Serial over LAN (SOL)

Media Redirection

- Simultaneous floppy and CD/ DVD redirection
- Efficient USB 2.0-based CD/DVD redirection, with typical speed greater than 15xCD
- Support for USB key VLAN support

Event Log and Alerting

- Read Log events
- Full SMTP support
- Sensor readings
- SNMP trap
- Email alerts

Sophisticated User Management

- IPMI based user management
- Added security with SSL (HTTPS)
- Multiple user permission level
- Multiple user profiles

Active Directory/LDAP Client support

- Direct LDAP support from the device
- Windows Active Directory and Open-LDAP

Common Information Model (CIM)

- CIM Object Manager (CIMOM)
- True Object Manager with CIM class handling
- Creating class, instance and working with the instances
- Core support for all DMTF profiles

SMASH and CLP support

- SSH based SOL
- Power control of the server
- Support for all DMTF Profiles
- Complete command support

WSMAN Support

- Supports WSMAN as well as WS-CIM
- Rich SDK capability for OEM extensions
- Fully organically developed code as library
- LIGHTTPD
- HTTP and HTTPS support
- Complete WSMAN support - Discovery, Enumeration, Get, Put, Subscribe and Eventing
- Rich client library support (C, Java, JavaScript)
- Web Interface Multilanguage support
- Full Unicode support
- Multiple language support for multiple clients simultaneously

Web based configuration

- Full configuration using web UI
- Firmware Firewall

Watchdog Timer

Fail-safe firmware upgrade

Tools to flash firmware in DOS, Linux and Windows

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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:

BBC · sky · itv · Virgin · Google · SHAZAM · HM Revenue & Customs · TOYOTA · NASA · CERN · SONY · TOSHIBA · Rolls-Royce · Walt Disney · ESPN · symantec. · UNIVERSITY OF OXFORD · UNIVERSITY OF CAMBRIDGE · TESCO · redhat

Broadberry CELEBRATING

1989 **30** 2019

Years of providing enterprise-grade solutions to the world's biggest brands