

# Datasheet

## WINDOWS SERVER® 2012 (OEM, ROK) FOR PRIMERGY

WITH THE RELEASE OF THE WINDOWS SERVER® 2012 OPERATING SYSTEM FUJITSU EXPANDS ITS OFFERING OF X86 PRIMERGY SERVER-BASED OPERATING SYSTEMS



### WINDOWS SERVER 2012

Windows Server 2012 delivers hundreds of new features and enhancements for transforming virtualization and cloud computing including:

- **Beyond Virtualization:** Offers a dynamic, multitenant infrastructure to help users scale and secure workloads to build a private cloud.
- **Power of Many Servers, Simplicity of One:** Delivers a highly available and easy-to-manage multi-server platform.
- **Every App, Any Cloud:** Offers a broad, scalable, and elastic server platform that gives users the flexibility to build and deploy applications and websites on the premises, in the cloud, or both.
- **Modern Work Style Enabled:** Provides users with flexible access to data and applications while simplifying management and maintaining security, control, and compliance.

Fujitsu offers Windows Server 2012, as OEM software directly to customers together with a new Fujitsu PRIMERGY server purchase, or through its distribution, partners, and resellers as OEM ROK products (Reseller Option Kit).

### PRODUCT LINEUP

At the time of the launch of Windows Server 2012 there are four editions available: Windows Server 2012 Datacenter, Standard, Foundation and Windows Storage Server 2012. All products include an English, German, French, Italian, Japanese and Spanish user interface. Additional language packs are available.

### DELIVERY

The products ship packaged with the Fujitsu PRIMERGY server – available in the price list for Fujitsu PRIMERGY.

### SERVICEABILITY

The products include a country-specific warranty.

### INSTALLATION

At launch time from the Fujitsu Windows Server 2012 OEM and OEM ROK DVD Media. Signed drivers are available for download from Fujitsu.

### SUPPORT SERVICES

It is recommended to obtain support services from Fujitsu. Fujitsu ServicePacks include a wide range of different Service Level Agreements. More information is available at [https://sp.ts.fujitsu.com/dmsp/docs/db-servicepack-sw-ms\\_citrix.pdf](https://sp.ts.fujitsu.com/dmsp/docs/db-servicepack-sw-ms_citrix.pdf) and <https://sp.ts.fujitsu.com/dmsp/docs/ta-servicepack-sw-microsoft.pdf>.

### LIFECYCLE SUPPORT POLICY

Microsoft's support lifecycle for Windows Server 2012 applies in addition to Fujitsu's PRIMERGY lifecycle: <http://support.microsoft.com/gp/lifeselectindex#W>

### ORDER-NUMBERS

- **Windows Server® 2012 Datacenter 2CPU**  
OEM S26361-F2567-E410  
ROK S26361-F2567-D410
- **Windows Server® 2012 Datacenter Additional License 2CPU No Media/Key**  
OEM S26361-F2567-E411  
ROK S26361-F2567-D411
- **Windows Server® 2012 Standard 2CPU & 2VM**  
OEM S26361-F2567-E420  
ROK S26361-F2567-D420
- **Windows Server® 2012 Standard Additional License 2CPU & 2VM No Media/Key**  
OEM S26361-F2567-E421  
ROK S26361-F2567-D421
- **Windows Server® 2012 Foundation 1CPU**  
OEM S26361-F2567-E440  
ROK S26361-F2567-D440
- **Windows® Storage Server 2012 Standard**  
OEM S26361-F2567-E450  
ROK S26361-F2567-E450
- **Windows® Storage Server 2012 Standard 2CPU & 2VM**  
OEM S26361-F2567-E451  
ROK S26361-F2567-D451
- **Windows Server® 2012 CAL 50/10/5/1 device**  
S26361-F2567-E460/E462/E464/E466  
S26361-F2567-L460/L462/L464/L466
- **Windows Server® 2012 CAL 50/10/5/1 user**  
S26361-F2567-E461/E463/E465/E467  
S26361-F2567-L461/L463/L465/L467
- **Windows Server® 2012 RDS CAL 5/1-device**  
S26361-F2567-E470/E472  
S26361-F2567-L470/L472
- **Windows Server® 2012 RDS CAL 5/1-user**  
S26361-F2567-E471/E473  
S26361-F2567-L471/L473

# Features and benefits

## Windows Server 2012 at a glance

### Windows Server 2012 Datacenter / Standard

Windows Server 2012 Datacenter is the ideal edition for customers with highly virtualized private and hybrid cloud environments. It provides a virtualization flatrate thanks to the unlimited virtual use rights. One Windows Server 2012 Datacenter license grants the rights to run on up to 2 processors. Additional licenses may be added for servers with more than 2 processors.

Windows Server 2012 Standard offers customers with physical computing or lightly virtualized environments a flexible and reliable solution. With the release of Windows Server 2012 Standard the customer benefits from an additional virtual instance for a total of now two instances. One Windows Server 2012 Standard license grants the rights to run on up to 2 processors. Additional licenses may be added for more than 2 virtual instances (as well as for more than 2 processors).

#### Features

- Windows Server 2012 Hyper-V with Hyper-V Extensible Switch
- Hyper-V Replica
- Failover Clustering
- Live Migration
- Dynamic Memory
- Remote Desktop Services & Direct Access
- Data Security & Compliance

#### Benefits

- Support of more complex virtual environments
- Easy-to-handle connection of VMs to physical networks
- Hyper-V Replica enables business continuity and disaster recovery
- Live migration without SAN thanks to SMB failover
- Increase storage capacity thanks to direct connection between the VMs and Fiber Channel-based storage
- Keep virtual machines running although physical memory is not available thanks to second level paging
- Reduce downtime and costs in the case of file system failure

### Windows Server 2012 Foundation

Windows Server 2012 Foundation is the ideal solution for entry level customers looking for a cost effective single-socket server system. It supports up to 15 user accounts or devices and a maximum 1 CPU and 32 GB RAM. Windows Server 2012 Foundation cannot be virtualized as a guest OS and cannot be used as a virtualization host OS. It offers features like:

- Operation of application
- File & print sharing
- Internet connection

#### Benefits

- No CALs required
- Replace of peer-to-peer network and get a reliable solution for small businesses
- Active Directory (AD) is optional, must be configured as the root of the AD forest and domain and may not be a child nor have trusts with any other domains
- Easy and cost-effective operation with central server and network management
- Flexibility for users due to access to data and applications
- Optional Mobility and Remote Desktop Services through the purchase of Windows Server 2012 RDS CAL
- Enhanced security features - be save while using public cloud services and mobile access to critical business data

### Windows Storage Server 2012 Standard

Windows Storage Server 2012 is the most suitable operating system platform for NAS appliances that are pre-configured for customers that need a cost effective, reliable storage solution. Being a file based storage solution, it supports and incorporates enterprise class features like iSCSI target, SMB/NFS file sharing, clustering and continuous availability, cluster aware updating, data deduplication, branch cache. Due to the design as an optimized for storage solution, it does not support features like Active Directory Domain controller, application server roles, terminal services for applications, rights management server, certificate federation, fax server. Windows Storage Server 2012 Standard license grants the right to run on 2 processors and in 2 virtual instances. Additional licenses may be added for more than 2 virtual instances (as well as for more than 2 processors).

- Scale out and Scale up file server
- No CALs required
- Support for an unlimited amount of users (may be only limited by particular hardware implementation)

# Technical Details

## SOFTWARE REQUIREMENTS

|                                                    |                                                                                                                                                                                                                                |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Server Operating System</b>                     | Windows Server 2012<br>The minimum system hardware requirements are defined by Microsoft. All Fujitsu PRIMERGY server systems, server blades and nodes, which are or will be certified ("logo'd"), fulfill these requirements. |
| <b>Windows Server 2012 Editions</b>                | Datacenter, Standard, Foundation                                                                                                                                                                                               |
| <b>Windows Server 2012 Storage Server Editions</b> | Standard                                                                                                                                                                                                                       |
| <b>Product Updates</b>                             | Updates through Microsoft via Windows Server Update Services                                                                                                                                                                   |

## HARDWARE REQUIREMENTS

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fujitsu PRIMERGY Server</b>                       | Blade / Cloud eXtension / Rack / Tower Servers<br>Fujitsu PRIMERGY TX120 S3p and PRIMERGY TX140 S1p for Windows Server 2012 Standard ROK and Windows Server 2012 Foundation ROK same day at launch on September 4, 2012. List will continuously grow during September and October 2012. Current release matrix for systems:<br><a href="http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421">http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421</a> . |
|                                                      | Fujitsu PRIMERGY components. Please see the release matrix for components.<br>Fujitsu ETERNUS storage systems. Please see the release matrix for ETERNUS.                                                                                                                                                                                                                                                                                                                                            |
| <b>Components Restrictions</b>                       | Storage Spaces technology is not supported to operate on top of a Hardware- or Software RAID configuration. Onboard graphics controller is limited to 1.024 x 768 resolution. NVIDIA® NVS 300 graphics PCIe adapter is not yet supported. There will be no support for BX600 1Gb Ethernet I/O Module (PCIe) with Broadcom LAN controller 5708S.                                                                                                                                                      |
| <b>System Requirements Fujitsu PRIMERGY Server</b>   | Processor. ECC Memory. RAM. Drive. DVD-ROM. Disk. Redundant array of independent disks (RAID) is supported but not required. The system volume must be MBR. Additional volumes can be MBR or GPT. Keyboard. Video. Mouse. Logo requirements are the same for all editions of Windows Server 2012. Windows Storage Server 2012 Standard does not require keyboard, video, mouse and is always delivered without.                                                                                      |
| <b>ETERNUS and PRIMERGY JBOD External Enclosures</b> | List will continuously grow upon launch and general availability in September 2012.                                                                                                                                                                                                                                                                                                                                                                                                                  |

## SERVIEW SUPPORT

|                                 |                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fujitsu ServerView Suite</b> | No ServerView Suite, no ServerView Installation Manager, no ServerView Deployment Manager support at launch, except download of ServerView RAID and ServerView Agents for Windows Server 2012. OEM drivers are available through the Fujitsu Technology Solutions download portal only. OEM drivers and ServerView software must be installed manually, no PSP, no PrimeUp. |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## LANGUAGES

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Windows Server 2012 Datacenter, Standard, Foundation, and Windows Storage Server Standard products are multilingual and include the following languages: English (default), German, French, Italian, Japanese, and Spanish. Brazilian Chinese - Simplified, Czech, Dutch, Hungarian, Korean, Polish, Portuguese, Russian, Swedish, and Turkish language packs are not included on DVD – will be made available for download free-of cost at <a href="http://www.microsoft.com">www.microsoft.com</a> , and from Fujitsu on a separate Fujitsu branded Supplement DVD, handling costs apply. |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## HYPER-V

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Windows Server 2012 Datacenter and Standard contain Hyper-V. <ul style="list-style-type: none"> <li>- Supported server guest operating systems are Windows Server 2012 and others.</li> <li>- Supported client guest operating systems are Windows and others.</li> </ul> More information for supported guest operating systems and Service Packs can be found at: <a href="http://technet.microsoft.com/de-DE/library/hh831531.aspx">http://technet.microsoft.com/de-DE/library/hh831531.aspx</a> . Guest operating systems must be correctly licensed. |
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**SOFTWARE REQUIREMENTS**

**EDITION-SPECIFIC RESTRICTIONS**

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System Restrictions Windows Server 2012 Foundation</b>       | Maximum 1CPU and 32GB RAM for systems with Windows Server 2012 Foundation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>System Restrictions Windows Storage Server 2012 Standard</b> | Systems with Windows Storage Server 2012 are designed and distributed for use without a monitor, keyboard or mouse (for certain maintenance or repairs, End User may connect a monitor, keyboard and mouse).<br>System must not be used as a substitute for a general purpose computing device. Must not be used as a domain controller – this function is not supported.<br>Must not be used to run as enterprise resource planning software, messaging or enterprise mail, web-based time management applications that address appointments, meetings and other calendaring items, Microsoft Exchange or Microsoft SharePoint Portal Server, team collaboration software, or Enterprise database software (such as Microsoft SQL Server). The Customer System may, however, be used to run or support non-enterprise database engines. This includes Microsoft SQL Server Desktop Engine and Microsoft SQL Server 2008 Express Edition. |

**LICENSING**

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Right to use</b>                                 | The software is <b>licensed per server system based on the number of processors</b> and instances of server software.<br><br>The software license is permanently assigned to the Fujitsu PRIMERGY server with which you acquired the software. That server is the licensed server for that particular license. You may assign other software licenses to the same server, but you may not assign the same license to more than one server.<br>Windows Server 2012 Datacenter and Standard requires CAL, although <b>not included</b> . CALs are required for every user or device accessing a server. Licensing details: <a href="http://www.microsoft.com/en-us/server-cloud/windows-server/2012-editions.aspx">http://www.microsoft.com/en-us/server-cloud/windows-server/2012-editions.aspx</a>                 |
| <b>End User License Terms</b>                       | Delivered with the product, either electronically or printed on paper. By using the software, you accept the license terms. If you do not accept them, do not use the software. Instead, contact Fujitsu to determine our return policy for a refund or credit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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**SOFTWARE ASSURANCE**

|  |                                                                                                             |
|--|-------------------------------------------------------------------------------------------------------------|
|  | Software Assurance for Windows Server 2012 products, regardless if OEM or ROK, is available from Microsoft. |
|--|-------------------------------------------------------------------------------------------------------------|

# More information

## Fujitsu OPTIMIZATION Services

In addition to FUJITSU Windows Server 2012 OEM / ROK for PRIMERGY, FUJITSU provides a range of platform solutions. They combine reliable FUJITSU products with the best in services, know-how and worldwide partnerships.

### Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

### Computing products

[www.fujitsu.com/global/services/computing/](http://www.fujitsu.com/global/services/computing/)

- PRIMERGY: Industrial standard server
- ETERNUS: Storage system

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

- Windows Server: Fujitsu PRIMERGY Operating System
- ServerView: Fujitsu PRIMERGY Server Management

## More information

Learn more about Fujitsu PRIMERGY, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website. [www.ts.fujitsu.com/fts](http://www.ts.fujitsu.com/fts)

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.

Please find further information at <http://www.fujitsu.com/global/about/environment/>



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## Contact

FUJITSU Technology Solutions GmbH  
Address: Heinz-Nixdorf-Ring 1, 33106 Paderborn, Germany  
Website: [www.ts.fujitsu.com/fts](http://www.ts.fujitsu.com/fts)  
2012-09-05 [DE] [EN]