SIEMENS EDA

ODB++ Inside for Cadence® Allegro® System Requirements

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Chapter 1
ODB++ Inside System Requirements

This document defines the minimum requirements and provides guidelines for the successful installation and operation of the ODB++ Inside software integrated with Cadence® Allegro®.

Release documents are located at the top level of the install package and on the Downloads page of the ODB++Design website—refer to this page for the most up-to-date information, including the changes added after the release:

https://odbplusplus.com/design/downloads/odb-d-inside

Hardware and Software Requirements

Computers on which ODB++ Inside is installed must meet the following requirements.

Requirement	Description
Disk Space	The amount of required disk space depends on the average job size and the number of jobs in production.
Memory	The suggested memory size for 64-bit systems is 8 GB and up.
Network	Computers on which ODB++ Inside is installed must have access to the server on which the data is stored. The appropriate network adapters, permissions, and shared folders must be available.

Compatible Releases

Products with which this release of ODB++ Inside can be integrated.

Product	Compatible Release Versions Supported
Cadence-Allegro	17.2-17.4

Operating System Support

This release of ODB++ Inside has been tested and qualified on the platforms listed below.

- Windows 10 Pro & Enterprise (64 bit)
- Windows 11 Enterprise (64 bit)
- Windows Server 2019 Standard (64 bit)
- Windows Server 2022 Standard (64 bit)
- Red Hat Enterprise Linux V8 (Updates 4-8) (64bit)
- Red Hat Enterprise Linux V9 (Update 1) (64bit)
- SUSE Linux Enterprise Server Enterprise Server & Desktop V15.1-V15.4 (64bit)

General Notes

- Specified patches below are minimum levels. Later versions of the patches are valid, supported configurations.
- Except as noted, all products are supported on all platforms.
- Processor and memory requirements vary based on the mix of applications being used, the design complexity, and infrastructure requirements. Individual needs may vary from those published below.

Processor Note for Intel/AMD Processors

All Windows and Linux OS variants run on Intel or AMD x86 or x64 processors. In the past, the processor GHz speed determined the performance, but recent changes in the internal architecture of both Intel and AMD processors have made these comparisons difficult. Therefore, the following recommendations are being made for all Windows and Linux systems:

- Supported processors and systems are those manufactured since 2006 which conform to the subsequent requirements.
- Intel Celeron processors are not recommended.
- Minimum requirement is a dual-core (or dual processor) system. A quad core is recommended for improved overall system performance. A hyper-threaded processor should be considered a single processor, not a dual processor.
- For best results, maximize processor speed and L1/L2/L3 processor cache memory.
- Typically, cost is the best indicator of performance, and extra investment in processor capability returns better system performance.

Microsoft Windows 10

Microsoft Windows 10 Pro and Enterprise are supported.

Kernel Configuration

Not applicable.

Processor

Dual-core Intel or AMD processor minimum. See "Processor Note for Intel/AMD Processors" on page 6.

Memory

8 GB recommended.

Swap Space

2x the amount of RAM.

Microsoft Windows 11

Microsoft Windows 11 Enterprise is supported.

Kernel Configuration

Not applicable.

Processor

Dual-core Intel or AMD processor minimum. See "Processor Note for Intel/AMD Processors" on page 6.

Memory

8 GB recommended.

Swap Space

2x the amount of RAM.

Windows Server 2019

Additional OS Patches

The following configurations are supported:

- Microsoft Windows Server 2019, with all current updates via Windows Update

Processor

Dual-core Intel or AMD processor minimum. See "Processor Note for Intel/AMD Processors" on page 6.

Memory

8 GB recommended per simultaneously logged in user.

Swap Space

2x the amount of RAM.

Windows Server 2022

Additional OS Patches

The following configurations are supported:

- Microsoft Windows Server 2022, with all current updates via Windows Update

Processor

Dual-core Intel or AMD processor minimum. See “Processor Note for Intel/AMD Processors” on page 6.

Memory

8 GB recommended per simultaneously logged in user.

Swap Space

2x the amount of RAM.

Red Hat Enterprise Linux WS 8 (RHEL 8.4-8.8)

Several RPM packages and all of their dependencies need to be loaded on the RHEL 8 machines. (Both 64-bit and 32-bit packages should be loaded on a 64-bit machine where possible.) Most of the packages are available on the Red Hat media, but some* require a registered Red Hat Network to obtain:

- Kernel version 4.18.0-*
- libX11
- libxcb
- xcb-util-image
- xcb-util-wm
- xcb-util-keysyms
- xcb-util-renderutil
- libXau
- mesa-dri-drivers
- mesa-libGLU

- mesa-libGL
- libstdc++
- libSM
- libXmu
- ncurses-libs
- nspr
- libXft
- libXinerama
- glib2
- libpng12
- libpng15
- libtiff
- libjpeg-turbo
- dos2unix
- libXrandr
- redhat-lsb
- xorg-x11-server-Xvfb
- gtk2
- libcap
- libcanberra-gtk2
- PackageKit-gtk3-module
- openldap
- compat-openssl10
- libxslt
- libaio
- elfutils-libelf
- numactl
- numactl-libs
- libXdmcp

- dmidecode
- libpng
- tcsh
- libnsl
- openssl

Red Hat Enterprise Linux WS 9 (RHEL 9.1)

Several RPM packages and all of their dependencies need to be loaded on the RHEL 9 machines. (Both 64-bit and 32-bit packages should be loaded on a 64-bit machine where possible.) Most of the packages are available on the Red Hat media, but some* require a registered Red Hat Network to obtain:

- Kernel version 4.18.0-*
- libX11
- libxcb
- xcb-util-image
- xcb-util-wm
- xcb-util-keysyms
- xcb-util-renderutil
- libXau
- mesa-dri-drivers
- mesa-libGLU
- mesa-libGL
- libstdc++
- libSM
- libXmu
- ncurses-libs
- nspr
- libXft
- libXinerama
- glib2

- libpng12
- libpng15
- libtiff
- libjpeg-turbo
- dos2unix
- libXrandr
- redhat-lsb
- xorg-x11-server-Xvfb
- gtk2
- libcap
- libcanberra-gtk2
- PackageKit-gtk3-module
- openldap
- compat-openssl10
- libxslt
- libaio
- elfutils-libelf
- numactl
- numactl-libs
- libXdmcp
- dmidecode
- libpng
- tcsh
- libnsl
- openssl

SuSE Linux Enterprise Server and Desktop (SLES 15.1-15.4)

OS Version

```
$ uname –
rs
Linux 4.12.* [Varies by patch level]
```

Windowing System

```
$ /bin/rpm -q gdm
$ /bin/rpm -q xorg-x11-server
```

RPMs Required

The following RPMs are required from the SLES distribution. The presence of each rpm can be checked with the "rpm –q <*name_of_rpm*>" command. Versions will vary depending on the OS version and subsequent patches.

Packages required for SuSE 15.1-15.4 Systems With Kernel 4.12.14*

- Gdm-3 (Gnome Desktop Mgr)
- xorg-x11-server (X Windows)
- libstdc++6 (Compat C++ Libraries)
- libstdc++6-32bit
- libexpat1 (Expat Libraries)
- libexpat1-32bit-2
- libXdmcp6
- libXdmcp6-32bit
- lsb5
- libpng12-0
- libpng12-0-32bit
- libGLU1
- libGLU1-32bit
- libXtst6
- libXtst6-32bit
- libgthread-2_0-0
- libgthread-2_0-0-32bit
- libjpeg.so.62
- tcsh
- bc 1.07

Packages Required for SuSE 15.2 Systems With Kernel 5.3.18

- gdm
- xorg-x11-server

- libstdc++6
- libexpat1
- libXdmcp6
- lsb-release
- libpng12-0
- libGLU1
- libXtst6
- libgthread-2_0-0
- tcsh
- bc 1.07

Minimum Required OS Patches

None.

Processor

Dual-core Intel or AMD processor minimum. See "Processor Note for Intel/AMD Processors" on page 6.

Memory

8 GB Recommended.

Swap Space

2X the amount of RAM.

Kernel Parameters

No changes required.