

# Autodesk® AutoCAD® 2021 - including specialized toolsets

## System requirements

### Supported operating systems

See Autodesk's [Product Support Lifecycle](#) for support information.

### Processor

#### Basic

- 2.5-2.9 GHz processor

#### Recommended

- 3+ GHz processor

### Network

Deployment via Deployment Wizard.

The license server and all workstations that will run applications dependent on network licensing must run TCP/IP protocol.

Either Microsoft® or Novell TCP/IP protocol stacks are acceptable. Primary login on workstations may be Netware or Windows.

In addition to operating systems supported for the application, the license server will run on the Windows Server® 2016, Windows Server 2012 R2, and Windows Server 2019 editions.

### Hardware

#### Memory

##### Basic

- 8 GB

##### Recommended

- 16 GB

#### Display resolution

Conventional Displays:

1920x1080 with True Color

High Resolution & 4K Displays:

Resolutions up to 3840x2160 supported on Windows 10, (with capable display card)

## System requirements

Autodesk AutoCAD 2021

### Hardware (continued)

#### Disk space

7.0 GB

#### Pointing device

MS-Mouse compliant

#### Multiple processors

Supported by the application

#### Display card

##### Basic

- 1 GB GPU with 29 GB/s Bandwidth and DirectX11 compliant

##### Recommended

- 4 GB GPU with 106 GB/s Bandwidth and DirectX11 compliant

#### Plotter/Printer

Continued system printer and HDI support

#### Compiler

Visual Studio 2019 Pro 16.0

#### Installer

MSI 5.0

#### Builds

Locked–FLEXnet

#### Locking/License management

FLEXnet & Autodesk Licensing Service will be used for both the stand-alone and networked versions

#### Side-by-side install

Supported

#### Additional requirements for large datasets, point clouds, and 3D modeling

- 16 GB RAM or more
- 6 GB free hard disk available not including installation requirements
- 1920x1080 or greater True color video display adapter; 128 MB VRAM or greater, Pixel Shader 3.0 or greater, Direct3D® capable workstation class graphics card.

## Software

### Languages

English, French, Italian, German, Spanish, Portuguese, Japanese, Korean, Traditional Chinese, Simplified Chinese, Czech, Polish, Hungarian, Russian

\*AutoCAD specialized toolsets may not support all above languages

### File format changes

No

### Save as support

AutoCAD R14, AutoCAD 2000, AutoCAD 2004, AutoCAD 2007, AutoCAD 2010, AutoCAD 2013, AutoCAD 2018.

EMR has the same formats as Commercial AutoCAD, with the exception of AutoCAD 2000/LT2000 Drawing

\*AutoCAD Architecture and AutoCAD MEP do not support Save As

### DXF support

AutoCAD R12, AutoCAD 2000, AutoCAD 2004, AutoCAD 2007, AutoCAD 2010, AutoCAD 2013, AutoCAD 2018

### API compatibility

ARX: No (source and binary)

LISP: Yes (source and binary)

.NET: No (source and binary)

Javascript: No (source and binary)

### Script compatibility

Yes

### Security (DWG)

Supports digital signatures.

### Drawing size support

Full DWG compression

### Object interoperability (non-AutoCAD object model)

New objects may require new enablers.

### .NET Framework

.NET Framework Version 4.8 or later

## Specialized Toolsets

Toolset	Product Specific Requirements
Map 3D	<ul style="list-style-type: none"><li>• Disk Space: 16GB</li><li>• Memory: 16GB</li><li>• Database &amp; FDO Requirements (see below)</li></ul>
Electrical	<ul style="list-style-type: none"><li>• Disk Space: 12GB</li><li>• Microsoft Access Database Engine 2016 Redistributable (x64)</li></ul>
Plant 3D	Disk Space: 10GB
Architecture	Disk Space: 12GB
Mechanical	Disk Space: 7GB
MEP	Disk Space: 12GB

Map 3D Additional Requirements

FDO Provider Requirements		
FDO Provider	Certified With	Notes
Microsoft SQL Server	Microsoft SQL Server 2014 Standard and Enterprise Editions Microsoft SQL Server 2016 Standard and Enterprise Editions Microsoft SQL Server 2017 Standard and Enterprise Editions Microsoft SQL Server 2019 Standard and Enterprise Editions	Industry Models also support the versions of Microsoft SQL Server listed on the left.
Oracle 11g Release 2	Oracle 11.2.0.4.0 Oracle Express, Standard, and Enterprise Editions	Industry Models support the same Oracle versions as listed on the left.
Oracle 12c Release 2	Oracle 12.2.0.1.0 Standard Edition and Enterprise Edition	Industry Models support the same Oracle versions as listed on the left.
Oracle 18c	Oracle 18.3 Enterprise Edition and Standard Edition 2	Industry Models support the same Oracle versions as listed on the left.
Oracle 19c	Oracle 19.3 Enterprise Edition and Standard Edition 2	Industry Models support the same Oracle versions as listed on the left.
Raster	DEM, JPG2K, DTED, MrSID®, ECW, PNG, ESRI® Grid, TIFF, JPEG, ESRI® ASCII	
Autodesk SDF	3.0	
ESRI ArcGIS	ArcGIS® 10.7.1 ArcGIS 10.6.1 ArcGIS 10.5	This Provider requires ESRI licensed components to be installed on client system.
MySQL	8.0	
ODBC	The FDO ODBC provider has been tested with corresponding versions of ODBC drivers that are shipped with the relevant supported operating systems version.	
OGC WMS	WMS 1.3.0	
OGC WMTS	WMTS 1.0.0	
OGC WFS	WFS 2.0.0	
SQLite	SQLite 3.27.2	
PostgreSQL	PostgreSQL 9.5 + PostGIS 2.2	

ODBC Drivers	Tested Versions
Microsoft® Access® Driver (*.mdb, *.acdb)	Microsoft Access database engine 2016(English) 16.00.4513.1000
Microsoft® Excel® Driver (*.xls, *.xlsx, *.xlsm, *.xlsb)	Microsoft Access database engine 2016(English) 16.00.4513.1000
MySQL® ODBC 8.0 Driver	8.00.13.00
SQL Server	10.00.18362.01
Oracle® in OraClient19Home1	19.00.00.00

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### See Also:

[Certified hardware for AutoCAD](#) - Use this tool to find recommended graphics hardware and drivers. Autodesk tests graphics hardware and drivers for a number of Autodesk products. Please note that not all Autodesk products participate in graphic hardware certification. [AutoCAD Certified Hardware FAQ](#)