



Order Information

zenon

Information | Integrity | Insight

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As an open Supervisory Control and Operational Data Management system, zenon securely delivers supervision, control, data acquisition, scheduling and performance reporting to your customers production assets, scaling from single machines to unified multi site factory solutions. zenon is the easy to integrate platform for machine builders and system integrators.

Turning data into information

With its more than 300 supported communication protocols, simple to setup ERP and cloud interfaces, zenon becomes a key component in the Internet of Things, Services and People.

Securing information integrity

Smart integration into all processes and security systems – zenon is protected by a security system designed for being deployed into a critical infrastructure.

Creating insight for better business decisions

zenon comes with audit trail, batch and production scheduling capabilities for the food and beverages industries and is a certified energy data management system.

Easy to use reporting functions give deep insight into your production processes and allow for quality assurance, production optimization and online reporting.

Engineering productivity

zenon's multi user engineering capabilities and object oriented design ensures low startup cost and high engineering productivity for your team. Through the open engineering interface architecture and the integration with Automation Builder, zenon perfectly integrates with your engineering tool chain.

Low total cost of ownership

The extensive life cycle of zenon, together with its backward compatibility and the possibility to engineer mixed version environments ensures simple and cost effective extensions of your customer's production assets.

Factory automation solutions from ABB

With zenon, ABB completes its factory automation products portfolio and delivers drives, automation, electrification, support and service for machine builders and system integrators from a single vendor.

Your complete automation solution starts with ABB.

Supported operating systems

- All operating systems are supported in the multi-lingual version.
- Windows RT 8 and Windows RT 8.1 are not supported due to the system.
- Itanium processors are not supported for any operating system.

Overview of supported desktop operating systems for Windows 10

Windows version	zenon Supervisor / Operator	Everywhere by zenon	zenon Logic Runtime
Windows 10 Home	■	■ (PC)	■
Windows 10 Mobile	■	■ (Mobile)	
Windows 10 Pro	■	■ (PC)	■
Windows 10 Enterprise	■	■ (PC)	■
Windows 10 Education	■	■ (PC)	■
Windows 10 Mobile Enterprise		■ (Mobile)	
Windows 10 IoT Core			■
Windows 10 IoT Enterprise (Windows 10 Enterprise LTSC)	■	■ (PC)	■

Overview

Supported operating systems and required service packs:

Operating system	zenon Editor	zenon Runtime	zenon Web Server	zenon Web Client	zenon HTML Web Engine	zenon Logic Runtime	zenon Analyzer Server
Windows 7 (Professional, Enterprise and Ultimate version, x86 and x64 versions)	SP 1	SP 1	SP 1	SP 1	SP 1	SP 1	
Windows Embedded Standard 7 (if all necessary operating system components exist)	Cannot run	SP 1	SP 1	SP 1	SP 1	SP 1	
Windows 8 and 8.1 (Standard, Professional, Enterprise version, x86 and x64 versions)	SP 0	SP 0	SP 0	SP 0	SP 0	SP 0	Only x64 with SP 0
Windows Embedded 8 Standard (if all necessary operating system components exist)	Cannot run	SP 0	SP 0	SP 0	SP 0	SP 0	
Windows 10 (Home, Pro, Enterprise, Education, IoT Enterprise, version, x86 and x64 versions)	SP 0	SP 0	SP 0	SP 0	SP 0	SP 0	Only x64 version of Home, Pro and Enterprise with SP 0
Windows Server 2008 R2 (All editions with the exception of Core)	SP 1	SP 1	SP 1	SP 1	SP 1	SP 1	
Windows Server 2012 and 2012 R2 (All editions with the exception of Core)	SP 0	SP 0	SP 0	SP 0	SP 0	SP 0	Only x64 with SP 0

Up to Windows 8.1

Overview of supported servers and desktop operating systems up to Windows 8.1

	Windows Embedded 7/8 Standard	Windows Embedded 8.1 Pro/Industry	Windows 7 SP1/Windows 8 and 8.1/ Server 2008 (R2) SP1, 2012 and 2012 R2	Windows CE
Editor		■	■	
Runtime	■	■	■	
Runtime for Windows CE				■
Web Server	■	■	■	■
Web Client	■	■	■	
HTML Web Engine	■	■	■	

Attention:

Windows CE is no longer supported from version 7.50.
zenon CE version 7.20 is installed. To use this, the Run time file/esfor version 7.20 must be created.

Windows CE & Windows Embedded Compact

Operating system	zenon Editor	zenon Runtime	zenon Web Server	zenon Web Client	zenon HTML Web Engine	zenon Logic Runtime	zenon Analyzer Server
Windows CE 6.0 (ARM and x86) Attention: Is only supported up to version 7.20. From version 7.50, Runtime files for 7.20 must be created.		zenon Operator only	Pro Light only			executable	
Windows Embedded Compact 7 (ARM and x86) Attention: Is only supported up to version 7.20. From version 7.50, Runtime files for 7.20 must be created.		zenon Operator only	Pro Light only			executable	

zenon product overview

Feature	zenon Supervisor Development Environment	zenon Supervisor Development Complete	zenon Supervisor Runtime	zenon Operator Development Environment	zenon Operator Runtime	zenon Operator 600 Runtime
zenon Supervisor Editor	■	■				
zenon Supervisor Editor with time limit			■			
zenon Supervisor Runtime	■	■	■			
zenon Operator Editor				■		
zenon Operator Editor with time limit					■	
zenon Operator Runtime				■	■	
zenon Logic Workbench Pro (IEC 61131-3)	■	■		■		
zenon Logic Runtime unlimited	□	■	□			
zenon Logic Runtime with 8 TAGs	■	■	■	■	■	■
zenon Logic Monitoring Builder	■	■		■		
zenon Logic Monitoring Viewer	■	■	■	■	■	
Standard recipes	■	■	■	■	■	■
Recipegroup Manager (RGM)	□	■	□	□	□	□
Batch Control Starter Edition, 5 Units	□	■	□			
Batch Control Starter Edition	□	□	□			
Batch Control Professional	□	□	□			
Alarm Management and Chronological Event List (operations log) with comprehensive filters	■	■	■	■	■	■
Message Control	□	■	□	□	□	
Extended Trend & Historian Starter Edition (SE)	■	■	■	□ ²⁾	□	□
Extended Trend (ETM)	□	■	□	□	□	
Historian	□	■	□	□	□	
Historian SQL Server Interface	□	□	□			
Scheduler	■	■		■	■	■
Production & Facility Scheduler (PFS)	□	□	□			
Industrial Maintenance Manager (IMM)	□	■	□			
Industrial Performance Analyzer (IPA)	□	■	□			
Report Viewer	□	□	□	■	■	■
Report Generator	□	■	□	□	□	
Web Server Pro Light	□	□	□	□	□	□
Everywhere Server	□	□	□	□	□	
Load Management (EMS)	□	□	□			
FDA 21 CFR PART 11 compliant	■	■	■	■	■	■
Video integration, HTML window, keyboard, variable overview, ...	■	■	■	■	■	■
Online switching of language and character sets	■	■	■	■	■	■
Redundancy	■	■	■			
Circular redundancy©	■	■	■			
All PLC and bus drivers ¹⁾	□	■				
Various system drivers	■	■	■		■	■
Multi-driver interface	■	■	■			
SAP Interface	□	□	□			
Process Gateway - OPC/OPC UA Server	□	■	□	□	□	

■ Included

□ Optional

¹⁾ Energy driver (60870 -101/103/104, 61850, DNP3_TG, Modbus Energy), CTI driver and Group „R“ drivers excluded. These drivers can be acquired additionally.

²⁾ ZM ETM included in zenon Operator Development Environment 8192 Tags

Feature	zenon Supervisor Development Environment	zenon Supervisor Development Complete	zenon Supervisor Runtime	zenon Operator Development Environment	zenon Operator Runtime	zenon Operator 600 Runtime
Process Gateway – other protocols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Automatic Line Coloring (ALC)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Native Multi-Touch support	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Online reload	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PLC Diagnosis	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Remote engineering and remote maintenance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Distributed engineering and multiple-server technology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Project Simulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Configure projects automatically	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Template administration for zenon screen types	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Project versioning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Multi-Project Administration	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Multi-User Environment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Programming Interface (VBA/C#/VB.NET)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
DirectX 11.1 Support	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
WPF Support	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Menus and context menus	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Online help	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Worldview screen via mouse or touch	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Visibility levels	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
No restriction on process variables		<input checked="" type="checkbox"/>				
Dongle	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

- Included
- Optional

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zenon Operator Remarks:

- For the use of 4096 and 8192 TAGs with Windows CE 6.0 or higher, a more powerful hardware is required.
- Please state the operating system you use when placing your order. The respective lot size for obtaining the zenon Operator licenses is to be clarified with the local ABB sales office.

zenon Operator Restrictions:

- No redundancy possible.
- No distributed engineering (1 project + global project possible)
- Only one instance per driver (as Standalone/Server/Client)
- No VBA/C#/VB.NET possible in the Runtime, ActiveX and access from external programs supported.

Note the general operating system restrictions of Win CE systems (see zenon online help).

zenon Supervisor

Delivering strong performance. Securely.

Visualize, control and optimize complex production facilities with zenon Supervisor. zenon Supervisor is platform-independent and easy to integrate. With zenon Supervisor, you go for maximum security and optimal connectivity to existing machine environments.

Information

zenon Supervisor turns production data into information. With its more than 300 supported communication protocols, zenon Supervisor natively connects to nearly any existing automation and control infrastructure. Once refined in zenon Supervisor, your production information gives you insight and control over your production assets – everywhere.

Integrity

zenon network technology with seamless redundancy and circular redundancy guarantees full data security, maximum availability without downtimes and no loss of your valuable production data. zenon is impressive not just technically, but also economically.

zenon is continually being adapted to modern security standards. This provides stable and secure equipment running. zenon is secure for being used in critical infrastructure.

Insight

You will be informed of whatever is happening in as detailed a way as you wish. Starting with local HMI and operator workplaces, history of changes in engineering, up to effective reports in the runtime, right to calculating complex KPIs such as OEE.

Keep control of your production assets through outstanding transparency.

Engineering

You can develop projects in your own exact style, use available templates and intelligent wizards. You are able to reuse once created objects in other projects and keep an overview with the multi-project administration, also when working in a team.

The Hot Reload even enables all changes to be made during a running operation. And your production keeps on running.

Maintenance

Well documented and offering version administration, you can quickly find your way around any project and also easily access projects and equipment remotely.

Advantages:

- Full data security, maximum availability without downtimes and no loss of data
- Integrates with existing operations and management environments through outstanding connectivity
- Develop individual projects, use available templates and intelligent wizards
- Reuse of created objects in other projects and overview using the multi-project administration, also when working in a team
- Well documented and offering version administration
- Easy access to projects and equipment remotely
- Effective reporting

zenon Supervisor Runtime Licenses

Description	Type	Order Code
zenon SU RT 64 TAGs	ZSU7-RT-64	1SAS053032R0750
zenon SU RT 128 TAGs	ZSU7-RT-128	1SAS053033R0750
zenon SU RT 256 TAGs	ZSU7-RT-256	1SAS053034R0750
zenon SU RT 512 TAGs	ZSU7-RT-512	1SAS053035R0750
zenon SU RT 1024 TAGs	ZSU7-RT-1024	1SAS053036R0750
zenon SU RT 2048 TAGs	ZSU7-RT-2048	1SAS053037R0750
zenon SU RT 4096 TAGs	ZSU7-RT-4096	1SAS053038R0750
zenon SU RT 8192 TAGs	ZSU7-RT-8192	1SAS053039R0750
zenon SU RT 16384 TAGs	ZSU7-RT-16384	1SAS053040R0750
zenon SU RT 65536 TAGs	ZSU7-RT-65536	1SAS053041R0750
zenon SU RT Unlimited TAGs	ZSU7-RT-UNLMTD	1SAS053042R0750

zenon Supervisor Development Environment Licenses

Description	Type	Order Code
zenon SU DEV 64 TAGs	ZSU7-DV-64	1SAS050045R0750
zenon SU DEV 128 TAGs	ZSU7-DV-128	1SAS050046R0750
zenon SU DEV 256 TAGs	ZSU7-DV-256	1SAS050047R0750
zenon SU DEV 512 TAGs	ZSU7-DV-512	1SAS050048R0750
zenon SU DEV 1024 TAGs	ZSU7-DV-1024	1SAS050049R0750
zenon SU DEV 2048 TAGs	ZSU7-DV-2048	1SAS050050R0750
zenon SU DEV 4096 TAGs	ZSU7-DV-4096	1SAS050051R0750
zenon SU DEV 8192 TAGs	ZSU7-DV-8192	1SAS050052R0750
zenon SU DEV 16384 TAGs	ZSU7-DV-16384	1SAS050053R0750
zenon SU DEV 65536 TAGs	ZSU7-DV-65536	1SAS050054R0750
zenon SU DEV Unlimited TAGs	ZSU7-DV-UNLMTD	1SAS050055R0750
zenon SU DEV 7 Complete	ZSU7-DV-COMP	1SAS050066R0750

zenon Operator

Intuitive handling, secure operation and ergonomic control

zenon Operator helps to effectively increase productivity. New and existing machines can be securely integrated into your existing systems thanks to zenon's outstanding connectivity.

As innovative HMI software, zenon Operator offers complete Multitouch support for simple and reliable handling. It's just as easy to switch between languages, units and color layout during live operation.

The zenon Recipegroup Manager gives a clear overview of the creation and management of complex recipes. Graphical, it also noticeably eases handling in the Runtime. Instead of needing to memorize all parameters of comprehensive recipes, users can create their own screen for graphical recipe management.

With zenon Operator it is possible to easily and securely operate and maintain equipment remotely. Online reload technology allows for changes to the project without having to stop plant operation.

Advantages:

- Security at machine level
- Full integration with bigger zenon installations
- Optimum usability including Multitouch gestures
- Individually adaptable in the Runtime (languages, units, color palettes, and much more)
- Simple integration thanks to more than 300 integrated communication protocols
- Single engineering tool
- Set parameters instead of programming
- Reusability of objects, symbols and templates
- Remote maintenance and hot reload

zenon Operator Runtime Licenses

Description	Type	Order Code
zenon OP RT 64 TAGs	ZOP7-RT-64	1SAS053001R0750
zenon OP RT 128 TAGs	ZOP7-RT-128	1SAS053002R0750
zenon OP RT 256 TAGs	ZOP7-RT-256	1SAS053003R0750
zenon OP RT 512 TAGs	ZOP7-RT-512	1SAS053004R0750
zenon OP RT 1024 TAGs	ZOP7-RT-1024	1SAS053005R0750
zenon OP RT 2048 TAGs	ZOP7-RT-2048	1SAS053006R0750
zenon OP RT 4096 TAGs	ZOP7-RT-4096	1SAS053007R0750
zenon OP RT 8192 TAGs	ZOP7-RT-8192	1SAS053008R0750

zenon Operator Development Environment Licenses

Description	Type	Order Code
zenon OP DEV 64 TAGs	ZOP7-DV-64	1SAS050009R0750
zenon OP DEV 128 TAGs	ZOP7-DV-128	1SAS050010R0750
zenon OP DEV 256 TAGs	ZOP7-DV-256	1SAS050011R0750
zenon OP DEV 512 TAGs	ZOP7-DV-512	1SAS050012R0750
zenon OP DEV 1024 TAGs	ZOP7-DV-1024	1SAS050013R0750
zenon OP DEV 2048 TAGs	ZOP7-DV-2048	1SAS050014R0750
zenon OP DEV 4096 TAGs	ZOP7-DV-4096	1SAS050015R0750
zenon OP DEV 8192 TAGs	ZOP7-DV-8192	1SAS050016R0750

zenon Webserver

Creating insight everywhere

zenon Webserver brings projects to the internet and intranets without adaptations. All screens, users, password administration, information, etc. are available online. The web client has the same look & feel and the same functionality as that of zenon Runtime. If a project changes (e.g. a new screen), the project is synchronized online on the web client. That means that all participants worldwide are up to date at all times. zenon Webserver comes in two versions: as zenon Webserver with just observation functionality and as zenon Webserver Pro with complete operation and monitoring functionality.

Advantages

- Full process overview from every Windows PC workstation with different web browsers
- No additional project configuration required
- Changes to the project are recognized and updated online
- Client authentication
- Read (Pro: Write) access to the project possible
- Up to 200 concurrent connections are possible
- 128-bit encryption
- Optional HTTP tunneling can be activated
- Routing possible; the web server can be installed on any desired computer in the network
- The zenon Web Server can also be executed in redundant operation
- Native 64-bit support
- HTML Web Engine: Plug-in free, platform-independent HTML5 visualization. For simple dashboards and applications for the observation and operation of processes.

zenon Webserver

Description	Type	Order Code
WEB Server Pro Light 3 Clients	ZWEBSRV7-P-3-LIGHT	1SAS053031R0750
Web Server 1 Client	ZWEBSRV7-1	1SAS053134R0750
Web Server 3 Clients	ZWEBSRV7-3	1SAS053135R0750
Web Server 5 Clients	ZWEBSRV7-5	1SAS053136R0750
Web Server 10 Clients	ZWEBSRV7-10	1SAS053137R0750
Web Server 15 Clients	ZWEBSRV7-15	1SAS053138R0750
Web Server 20 Clients	ZWEBSRV7-20	1SAS053139R0750
Web Server 25 Clients	ZWEBSRV7-25	1SAS053140R0750
Web Server 50 Clients	ZWEBSRV7-50	1SAS053141R0750
Web Server 100 Clients	ZWEBSRV7-100	1SAS053142R0750
Web Server 200 Clients	ZWEBSRV7-200	1SAS053143R0750
Web Server Pro 1 Client	ZWEBSRV7-P-1	1SAS053145R0750
Web Server Pro 3 Clients	ZWEBSRV7-P-3	1SAS053146R0750
Web Server Pro 5 Clients	ZWEBSRV7-P-5	1SAS053147R0750
Web Server Pro 10 Clients	ZWEBSRV7-P-10	1SAS053148R0750
Web Server Pro 15 Clients	ZWEBSRV7-P-15	1SAS053149R0750
Web Server Pro 20 Clients	ZWEBSRV7-P-20	1SAS053150R0750
Web Server Pro 25 Clients	ZWEBSRV7-P-25	1SAS053151R0750
Web Server Pro 50 Clients	ZWEBSRV7-P-50	1SAS053152R0750
Web Server Pro 100 Clients	ZWEBSRV7-P-100	1SAS053153R0750
Web Server Pro 200 Clients	ZWEBSRV7-P-200	1SAS053154R0750

zenon Logic

Realtime operations on any device

zenon Logic is an integrated IEC61131-3 soft PLC that communicates through a huge variety of more than 300 communication protocols including fieldbuses like Profinet and Ethernet/IP, IEC61850, DNP3, BACnet and KNX. zenon Logic can be deployed on various hardware platforms, from the PC to automation hardware, and utilizes the same database as zenon Supervisor and zenon Operator.

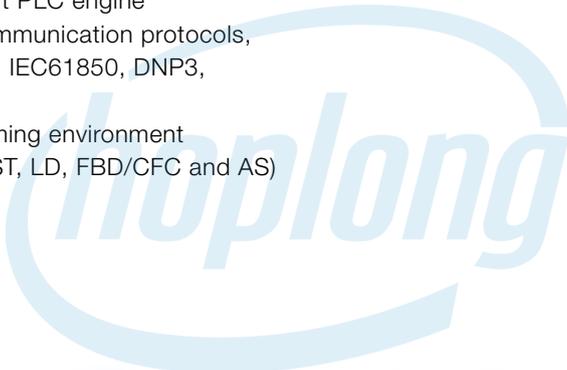
zenon Logic simulates the PLC and offers realistic values during testing. This shows immediately how the project is running in the plant and it is possible to correct any mistakes before going live. This saves time during start-up and for project changes – with perfect project simulation.

Advantages:

- zenon Logic is an IEC61131-3 soft PLC engine
- Full access to a variety of 300 communication protocols, including Profinet and Ethernet/IP, IEC61850, DNP3, BACnet and KNX.
Integrated IEC 61131-3 programming environment
- Most widely used languages (IL, ST, LD, FBD/CFC and AS)

zenon Logic

Description	Type	Order Code
zenon LO RT 64	ZLO7-64	1SAS053093R0750
zenon LO RT 128 TAGs	ZLO7-128	1SAS053094R0750
zenon LO RT 256 TAGs	ZLO7-256	1SAS053095R0750
zenon LO RT 512 TAGs	ZLO7-512	1SAS053096R0750
zenon LO RT 1024 TAGs	ZLO7-1024	1SAS053097R0750
zenon LO RT 2048 TAGs	ZLO7-2048	1SAS053098R0750
zenon LO RT 4096 TAGs	ZLO7-4096	1SAS053099R0750
zenon LO RT 8192 TAGs	ZLO7-8192	1SAS053100R0750
zenon LO RT 16384 TAGs	ZLO7-16384	1SAS053101R0750
zenon LO RT 65536 TAGs	ZLO7-65536	1SAS053102R0750
zenon LO RT Unlimited TAGs	ZLO7-UNLMTD	1SAS053103R0750


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zenon Modules

Module	zenon Supervisor	zenon Operator	zenon Operator 600
Recipe Group Manager	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Batch	<input type="checkbox"/>		
Message Control	<input type="checkbox"/>	<input type="checkbox"/>	
Extended Trend & Historian Starter Edition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extended Trend	<input type="checkbox"/>	<input type="checkbox"/>	
Historian	<input type="checkbox"/>	<input type="checkbox"/>	
Production and Facility Scheduler	<input type="checkbox"/>		
Industrial Maintenance Manager	<input type="checkbox"/>		
Reporting	<input type="checkbox"/>	<input type="checkbox"/>	
Everywhere Server	<input type="checkbox"/>	<input type="checkbox"/>	
Load Management	<input type="checkbox"/>		
Energy Data Management System	<input type="checkbox"/>		
SAP Interface	<input type="checkbox"/>		
SQL Server Interface	<input type="checkbox"/>		
Project Simulation	<input type="checkbox"/>		
Automatic Line Coloring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Included
- Optional

Trend

The Trend is used for the representation of online and historical values (Archive values) of process variables and derived process variables in form of curves. Scrolling in the Trend provides a ruler and zoom function together with a trend analysis. In contrast to the trend dynamic element, it is possible to zoom, browse, query and scale online values and values from archives.

Historian

In zenon, the Historian takes on the saving of process data as well as the export of the archived data. The data is thus available for subsequent processing and evaluation - even outside of zenon. Infinite archive size, cloud connection, reporting based on historian, evacuation of archives into SQL database or cloud.

Reporting

The integrated reporting in zenon serves as documentation, evaluation and presentation of process data on the basis of online and archive data from zenon. This is the transparency tool that generates insight out of production data. The report generator meets the requirements of different standards like ATV H260.

Batch

Batch Control offers the possibility to automate batch-oriented manufacturing processes. The module complies to ANSI/ISA-S88 and the equipment model according to ANSI/ISA-S95. Batch Control in zenon and Multi-touch technology create an environment which offers complete equipment and process control, with progressive and direct interfaces; helping users to realize the power and control of both new and existing processes.

Message Control

The optional module Message Control allows for an automatic sending and acknowledgement of messages. The sending is triggered via a function which can be linked with an event. Available media for sending include eMail, SMS and voice messages as audio or text-to-speech. The status of this transmission is logged in the Chronologic Event List (CEL).

Everywhere

The Everywhere Server by zenon is for visualization of real-time data of a zenon project configuration on smartphones, tablets and desktop computers. There is no additional project configuration work required.

There are zenon apps available in the respective app store and you can also create your own mobile applications for the visualization of your zenon project configuration.

Industrial Maintenance Manager

The Industrial Maintenance Manager (IMM) administers machine and maintenance data. Service intervals can comfortably be planned and administered. You can see at a glance which device, equipment, machine, etc. has to be maintained today / this week / next month etc. Additionally service work done in the past is logged.

SAP Interface

To connect the SAP ERP level (Enterprise Resource Planning level) to the process level of zenon, both programs communicate using a two-way interface. This gives SAP users direct access to the process level of zenon. With this, companies get important basic data for just-in-time production but also for long-term planning.

Production & Facility Scheduler

The Production & Facility Scheduler (PFS) allows executing actions (e.g. changing of a variable's set value, executing a function) for a period of time or in a time grid.

Load Management

Successful and efficient management of power generation and energy import.

A specialised energy management system enables the largest possible amount of energy to be procured from the supplier at the lowest possible price. Most significantly, it is the avoidance of costly power peaks that is the key to these savings.

Project simulation

With the help of the project simulation, you have the possibility of switching between simulation mode and hardware mode. You can simulate processes for test purposes in simulation mode. In this mode, switching actions are executed, recipes are sent, set values are defined etc. without these operations actually being sent to the process (such as to a PLC for example).

Energy Data Management System

There are numerous ways of saving energy and using it efficiently. Whatever method one decides on – prerequisite is always the collection of detailed, up-to date information on energy consumption and its costs. To keep an overview of this process an Energy Data Management System (EDMS) is vital.

A EDMS supports a company in the following ways:

1. Collection of energy data
2. Reduce energy consumption of facilities
3. Increase of equipment efficiency
4. Provide figures for energy controlling
5. Evaluation of deviations to secure error-free energy provision
6. Monitoring data of new and existing equipment

zenon meets the requirements of the TÜV Süd Standard “Certified Energy Data Management” and was certified accordingly. The certification is based on a reference application which was certified according to ISO 50001.

zenon Modules – General

Description	Type	Order Code
PLC DIAGNOSIS – SIMATIC S7-GRAPH SFC ANALYSIS	ZM-PLC-DIAG	1SAS050033R0750
Extended Trend & Historian SE for Operator	ZM-ARVETM-SE-OP	1SAS053024R0750
Historian	ZM-ARCH	1SAS053025R0750
Recipegroup Manager	ZM-RGM	1SAS053026R0750
Reporting	ZM-REPORT	1SAS053027R0750
Message Control	ZM-MC	1SAS053028R0750
Everywhere Server	ZM-EVWH	1SAS053029R0750
zenon ALC Autom. Line Coloring	ZM-ALC	1SAS053030R0750
Extended Trend	ZM-ETM	1SAS053053R0750
Historian SQL Server Interface	ZSQLSRV	1SAS053054R0750
Industrial Maintenance Manager	ZM-IMM	1SAS053055R0750
SAP Interface 4096 TAGs	ZM-SAP-4K	1SAS053056R0750
SAP Interface Unlimited TAGs	ZM-SAP-UNLMTD	1SAS053057R0750
Production & Facility Scheduler	ZM-PFS	1SAS053059R0750
EMS up to 15 MW	ZM-EMS-15MW	1SAS057026R0750
EMS Unlimited	ZM-EMS-UNLT	1SAS057027R0750
Project simulation	ZM-SIM	1SAS057028R0750
zenon Energy Data Management System	ZEDMS	1SAS057029R0750

zenon Modules – Batch

Description	Type	Order Code
Batch SE 5 Units	ZM-BASE-5	1SAS053060R0750
Batch SE 10 Units	ZM-BASE-10	1SAS053061R0750
Batch SE 20 Units	ZM-BASE-20	1SAS053062R0750
Batch SE 50 Units	ZM-BASE-50	1SAS053063R0750
Batch SE Unlimited Units	ZM-BASE-UNLMTD	1SAS053064R0750
Batch Pro 5 Units	ZM-BAPRO-5	1SAS053074R0750
Batch Pro 10 Units	ZM-BAPRO-10	1SAS053075R0750
Batch Pro 20 Units	ZM-BAPRO-20	1SAS053076R0750
Batch Pro 50 Units	ZM-BAPRO-50	1SAS053077R0750
Batch Pro Unlimited Units	ZM-BAPRO-UNLMTD	1SAS053078R0750

zenon Drivers

Integrating everything

Integrating a new machine, or a completely new plant site, is not a big deal with zenon. You just need to configure the required drivers and go online again. zenon delivers over 300 communication protocols, from all the important standards to rare proprietary drivers. Thus, you can easily implement zenon into any existing equipment and deploy new machines quickly and calmly.

Advantages:

- A variety of more than 300 protocols implemented
- Direct machine connectivity
- Full integration with zenon Operator, Supervisor and Logic
- Make zenon the entry point for your customers IoTSP strategy

Description	Type	Order Code
3S v3 driver for PLC Handler	ZT-3S_V3	1SAS056002R0750
3S Codesys Arti NG SoftPLC driver	ZT-3S_ARTI_NG	1SAS056001R0750
ABB AC500 driver	ZT-AC500	1SAS056276R0750
ABB Driver for ABB 07KT94 ¹⁾	ZT-CS3132	1SAS056003R0750
ABB IEC 61400-25-4 Annex C	ZT-IEC61400-25-4-C	1SAS056007R0750
ABB IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
ABB Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
ABB Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
Actisense Driver for NMEA 2000 Bus ¹⁾	ZT-NMEA2000	1SAS056008R0750
Allen-Bradley Allen Bradley DF1-driver	ZT-ALLEDF1	1SAS056010R0750
Allen-Bradley Allen Bradley RS-Linx driver ¹⁾	ZT-ALLENBNT	1SAS056009R0750
Allen-Bradley ODVA driver	ZT-LOGIX_ODVA	1SAS056011R0750
Alstom IEC 60870-5-101_104 driver	ZT-IEC870	1SAS056012R0750
Areva IEC 60870-5-101_104 driver	ZT-IEC870	1SAS056012R0750
Areva Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
Areva Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
Asfinag SaNORS - Asfinag SOS-telephones ¹⁾	ZT-SANORS	1SAS056016R0750
Bachmann M1 driver ¹⁾	ZT-BACH	1SAS056017R0750
BACnet driver Next Generation	ZT-BACNETNG	1SAS056018R0750
Beckhoff BC-BK 9000	ZT-BECKH9000	1SAS056019R0750
Beckhoff TwinCat NG driver	ZT-BECKHNG	1SAS056020R0750
Bernecker + Rainer BR TCP-IP driver ¹⁾	ZT-BURTCP	1SAS056023R0750
Bernecker + Rainer BR Transponder Reader 4102/4150	ZT-BuR41xx32	1SAS056025R0750
Bernecker + Rainer BR-PVI based driver	ZT-BURPVI	1SAS056024R0750
Bernecker + Rainer BR-PVI based driver (replaced)	ZT-BUR20032	1SAS056022R0750
Bernecker + Rainer Mininet-Master driver	ZT-MINI32	1SAS056021R0750
Biffi-Tyco Flow Control Biffi DCM ¹⁾	ZT-BIFFIDCM	1SAS056026R0750
Bosch Rexroth 3S v3 driver for PLC Handler	ZT-3S_V3	1SAS056002R0750
Brodersen Passive Modbus RTU driver ¹⁾	ZT-MODLISTEN	1SAS056031R0750

¹⁾ Not available on WIN CE and WIN Embedded Compact

Description	Type	Order Code
Brodersen straton / zenonLogic driver	ZT-STRATON	1SAS056030R0750
Brodersen straton NG driver	ZT-StratonNG	1SAS056032R0750
Brodersen System 2000 driver ¹⁾	ZT-SYS2000	1SAS056028R0750
Brodersen System 2000 driver with logging ¹⁾	ZT-SYSLOG	1SAS056029R0750
Buderus32 driver ¹⁾	ZT-BUDERUS	1SAS056033R0750
CAN Generic driver for CAN bus ¹⁾	ZT-CAN	1SAS056034R0750
CIMON Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
COPA-DATA Archive driver (RAW format)	ZT-ARCHDRV	1SAS056036R0750
COPA-DATA DDE Client driver ¹⁾	ZT-DDE	1SAS056040R0750
COPA-DATA File driver ¹⁾	ZT-DATEI32	1SAS056037R0750
COPA-DATA OPC Client V2-0 driver	ZT-OPCCLI32	1SAS056038R0750
COPA-DATA OPC UA Client driver	ZT-OPCUA	1SAS056041R0750
COPA-DATA Remote Runtime driver ¹⁾	ZT-RemoteRT	1SAS056042R0750
COPA-DATA SQL Driver ¹⁾	ZT-SQLDRV	1SAS056039R0750
Copalp straton / zenonLogic driver	ZT-STRATON	1SAS056030R0750
Copalp straton NG driver	ZT-StratonNG	1SAS056032R0750
Costronic Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
CTI driver	ZT-CTI	1SAS056047R0750
CTI TI 505 - 545 driver ¹⁾	ZT-TI500	1SAS056046R0750
Daimler integra driver ¹⁾	ZT-INTEGRA	1SAS056048R0750
Database Archive driver (RAW format)	ZT-ARCHDRV	1SAS056036R0750
Database SQL Driver ¹⁾	ZT-SQLDRV	1SAS056039R0750
Dateien Archive driver (RAW format)	ZT-ARCHDRV	1SAS056036R0750
Dateien DDE Client driver ¹⁾	ZT-DDE	1SAS056040R0750
Dateien File driver ¹⁾	ZT-DATEI32	1SAS056037R0750
DDE Client driver ¹⁾	ZT-DDE	1SAS056040R0750
DNP3 third generation driver	ZT-DNP3_TG	1SAS056055R0750
Echelon i-LON 100 driver ¹⁾	ZT-LON100	1SAS056057R0750
Echelon LON driver ¹⁾	ZT-LON32	1SAS056056R0750
EIB European Installation Bus ¹⁾	ZT-EIBV2_32	1SAS056058R0750
Elau 3S v3 driver for PLC Handler	ZT-3S_V3	1SAS056002R0750
Elau Codesys Arti NG SoftPLC driver	ZT-3S_ARTI_NG	1SAS056001R0750
ESA Driver for ESA PCI CIB	ZT-ESA32	1SAS056061R0750
Esser Driver for Esser BMZ 8000	ZT-ESSER32	1SAS056062R0750

¹⁾ Not available on WIN CE and WIN Embedded Compact

Description	Type	Order Code
Euchner Ident System driver	ZT-EUCH	1SAS056063R0750
Festo EasyIP Multiprog driver ¹⁾	ZT-FEASYIP	1SAS056064R0750
Festo Serial-CI driver, FST ¹⁾	ZT-FEFRFC	1SAS056065R0750
Files Archive driver (RAW format)	ZT-ARCHDRV	1SAS056036R0750
Files DDE Client driver ¹⁾	ZT-DDE	1SAS056040R0750
Files File driver ¹⁾	ZT-DATEI32	1SAS056037R0750
Gantner Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
GE Automation&Controls GE - SRTP driver ¹⁾	ZT-GE_SRTP	1SAS056072R0750
GE Automation&Controls Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
GE Automation&Controls Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
GE Multilin IEC 61400-25-4 Annex C	ZT-IEC61400-25-4-C	1SAS056007R0750
GE Multilin IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
GE Multilin Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
GE Multilin Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
Gossen Metrawatt Metrawatt driver ¹⁾	ZT-Metrawatt	1SAS056077R0750
Helmholz 3964R-RK512 driver	ZT-3964R32	1SAS056080R0750
Helmholz Hilscher MPI driver ¹⁾	ZT-OPENMPI	1SAS056079R0750
Helmholz HMI adapter driver ¹⁾	ZT-S7HMI	1SAS056078R0750
Helmholz PC Adapter - Vipa Green Cable	ZT-S7PCADAPTER	1SAS056081R0750
Hilscher CIF driver ¹⁾	ZT-CIF32	1SAS056083R0750
Hilscher MPI driver ¹⁾	ZT-OPENMPI	1SAS056079R0750
Hitachi driver	ZT-HITA	1SAS056084R0750
Hydrometer Driver ¹⁾	ZT-Hydrometer	1SAS056085R0750
IBH Driver for IBH Soft PLC	ZT-IBHRTSPS	1SAS056087R0750
IBH Hilscher MPI driver ¹⁾	ZT-OPENMPI	1SAS056079R0750
ICE Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
Iddec driver ¹⁾	ZT-IDEC	1SAS056089R0750
IEC 60870-5-101_104 driver	ZT-IEC870	1SAS056012R0750
IEC 60870-5-103 driver ¹⁾	ZT-IEC870-103	1SAS056092R0750
IEC 61400-25-4 Annex C	ZT-IEC61400-25-4-C	1SAS056007R0750
IEC 61499 driver ¹⁾	ZT-IEC61499	1SAS056094R0750
IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
IEC-62056-21 Driver ¹⁾	ZT-IEC62056	1SAS056093R0750
Inat S5 H1 driver ¹⁾	ZT-S5H1NT	1SAS056096R0750
Inat S5 TCP-IP driver ¹⁾	ZT-S5TCP32	1SAS056097R0750
Inat S7 driver Softnet based ¹⁾	ZT-S7NT	1SAS056099R0750
Inat S7 TCP-IP driver	ZT-S7TCP	1SAS056098R0750
Interbus CP001 Gateway driver	ZT-CP001	1SAS056101R0750
Interbus Hilscher CIF driver ¹⁾	ZT-CIF32	1SAS056083R0750
Interbus S driver ¹⁾	ZT-INTERNT	1SAS056100R0750
Internal driver Driver for internal variables	ZT-DDE	1SAS056040R0750
Internal driver Driver for Mathematics variable	ZT-DDE	1SAS056040R0750

¹⁾ Not available on WIN CE and WIN Embedded Compact

Description	Type	Order Code
Internal driver Driver for simulator variables	ZT-DDE	1SAS056040R0750
Internal driver Driver for system variables	ZT-DDE	1SAS056040R0750
Jetter Treiber ¹⁾	ZT-JETTER	1SAS056107R0750
Kaba data point server driver ¹⁾	ZT-KabaDPServer	1SAS056108R0750
Kalki IEC 61400-25-4 Annex C	ZT-IEC61400-25-4-C	1SAS056007R0750
Kalki IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
Keba CP001 Gateway driver	ZT-CP001	1SAS056101R0750
Keba Driver for the buttons /Ketop	ZT-KETOP	1SAS056112R0750
Kepeco KDNP1 driver ¹⁾	ZT-KDNP1	1SAS056114R0750
Kieback + Peter BACnet driver Next Generation	ZT-BACNETNG	1SAS056018R0750
KNX European Installation Bus ¹⁾	ZT-EIBV2_32	1SAS056058R0750
KOYO Sequence driver	ZT-KOYO	1SAS056117R0750
KW-Software Phoenix Contact driver	ZT-PHOENIX32	1SAS056118R0750
Laetus VDMA-XML driver	ZT-VDMA_XML	1SAS056121R0750
Lauer PCS807 Profibus DP driver	ZT-PCS80732	1SAS056123R0750
Lauer PCS812 S7 connection	ZT-PCS812	1SAS056122R0750
Lawicel Generic driver for CAN bus ¹⁾	ZT-CAN	1SAS056034R0750
LON i-LON 100 driver ¹⁾	ZT-LON100	1SAS056057R0750
LON driver ¹⁾	ZT-LON32	1SAS056056R0750
LSIS LS Industrial Systems-XGT ¹⁾	ZT-LS_XGT	1SAS056127R0750
Mastervolt MasterBus driver ¹⁾	ZT-Masterbus	1SAS056128R0750
Matsushita TCP-IP driver ¹⁾	ZT-MATSUTCP	1SAS056130R0750
Matsushita Panasonic serial driver ¹⁾	ZT-MATSU32	1SAS056129R0750
M-Bus Standard M-Bus driver	ZT-MBUS32	1SAS056131R0750
Metrawatt driver ¹⁾	ZT-Metrawatt	1SAS056077R0750
Microsoft Azure driver ¹⁾	ZT-AzureDrv	1SAS056133R0750
Mitsubishi - Melsec A-Q driver	ZT-MITSUB	1SAS056134R0750
Mitsubishi - Melsec FX driver	ZT-MITFX	1SAS056135R0750
Modbus RTU Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
Modbus RTU Passive Modbus RTU driver ¹⁾	ZT-MODLISTEN	1SAS056031R0750
Modicon TSX Micro driver	ZT-MODICON	1SAS056139R0750
Moeller Codesys Arti NG SoftPLC driver	ZT-3S_ARTI_NG	1SAS056001R0750
Moeller Electric PSUNI driver	ZT-PSUNI32	1SAS056140R0750
Moeller Profibus DP Master driver ¹⁾	ZT-DPUNI32	1SAS056141R0750
Mondial Mininet-Master driver	ZT-MINI32	1SAS056021R0750
Mondial Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
Mondial Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
MPI 3964R-RK512 driver	ZT-3964R32	1SAS056080R0750
MPI Driver for ESA PCI CIB	ZT-ESA32	1SAS056061R0750
MPI Driver for VIPA CE touchpanel	ZT-VIPA32	1SAS056154R0750
MPI Hilscher MPI driver ¹⁾	ZT-OPENMPI	1SAS056079R0750
MPI HMI adapter driver	ZT-S7HMI	1SAS056078R0750

¹⁾ Not available on WIN CE and WIN Embedded Compact

zenon Drivers

Description	Type	Order Code
MPI PC Adapter - Vipa Green Cable	ZT-S7PCADAPTER	1SAS056081R0750
MPI PCS812 S7 connection	ZT-PCS812	1SAS056122R0750
MPI S7 driver Softnet based ¹⁾	ZT-S7NT	1SAS056099R0750
MPI S7 MPI for Siemens CE terminals	ZT-MPI	1SAS056150R0750
NARI IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
NMEA Driver for NMEA 2000 Bus ¹⁾	ZT-NMEA2000	1SAS056008R0750
NR Electric IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
OMRON driver	ZT-OMRON32	1SAS056158R0750
Omron FINS driver	ZT-OMRONFINS	1SAS056159R0750
OPC Client V2-0 driver	ZT-OPCCLI32	1SAS056038R0750
OPC UA Client driver	ZT-OPCUA	1SAS056041R0750
OSAI TCP/IP driver	ZT-OSAI	1SAS056162R0750
Otis Driver for Otis controller	ZT-OTIS	1SAS056163R0750
Panasonic Matsushita TCP-IP driver ¹⁾	ZT-MATSUTCP	1SAS056130R0750
Panasonic serial driver ¹⁾	ZT-MATSU32	1SAS056129R0750
Phoenix Contact Interbus S driver ¹⁾	ZT-INTERNT	1SAS056100R0750
Phoenix Contact driver	ZT-PHOENIX32	1SAS056118R0750
PILZ-PSS driver	ZT-PSS32	1SAS056168R0750
Process-Informatik S5 TCP-IP driver ¹⁾	ZT-S5TCP32	1SAS056097R0750
Process-Informatik S7 driver Softnet based ¹⁾	ZT-S7NT	1SAS056099R0750
Process-Informatik S7 TCP-IP driver	ZT-S7TCP	1SAS056098R0750
Profibus DP CP001 Gateway driver	ZT-CP001	1SAS056101R0750
Profibus DP Hilscher CIF driver ¹⁾	ZT-CIF32	1SAS056083R0750
Profibus DP PCS807 Profibus DP driver	ZT-PCS80732	1SAS056123R0750
Profibus DP Master driver ¹⁾	ZT-DPUNI32	1SAS056141R0750
Profibus DP S7 driver Softnet based ¹⁾	ZT-S7NT	1SAS056099R0750
Profibus FMS FMS with PC card from Siemens ¹⁾	ZT-FMSNT	1SAS056177R0750
Reis Robotics driver ¹⁾	ZT-REIS32	1SAS056178R0750
Rockwell Allen Bradley DF1-driver	ZT-ALLEND1	1SAS056010R0750
Rockwell Allen Bradley RS-Linx driver ¹⁾	ZT-ALLENBNT	1SAS056009R0750
Rockwell Allen-Bradley ODVA driver	ZT-LOGIX_ODVA	1SAS056011R0750
RTK Instruments RTK9000 driver ¹⁾	ZT-RTK9000	1SAS056182R0750
Saia Directly driver	ZT-SADIR	1SAS056184R0750
SAIA2ND32 driver ¹⁾	ZT-SATCP	1SAS056183R0750
SAT IEC 60870-5-101_104 driver	ZT-IEC870	1SAS056012R0750
SAT IEC 61400-25-4 Annex C	ZT-IEC61400-25-4-C	1SAS056007R0750
SAT IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
Sauter 3964R-RK512 driver	ZT-3964R32	1SAS056080R0750
Schiele Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
Schiele Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
Schiele S400 driver	ZT-S432	1SAS056190R0750
Schleicher 3964R-RK512 driver	ZT-3964R32	1SAS056080R0750
Schneider 3S v3 driver for PLC Handler	ZT-3S_V3	1SAS056002R0750

¹⁾ Not available on WIN CE and WIN Embedded Compact

Description	Type	Order Code
Schneider Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
Schneider Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
Schneider Modicon TSX Micro driver	ZT-MODICON	1SAS056139R0750
Schweitzer Engineering Laboratories IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
Schweitzer Engineering Laboratories SEL Fast Message Protocol ¹⁾	ZT-SEL	1SAS056198R0750
SE Elektronik BACnet driver Next Generation	ZT-BACNETNG	1SAS056018R0750
SE Elektronik Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
SE Elektronik Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
SEL IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
Siemens 3964R-RK512 driver	ZT-3964R32	1SAS056080R0750
Siemens BACnet driver Next Generation	ZT-BACNETNG	1SAS056018R0750
Siemens CTI driver	ZT-CTI	1SAS056047R0750
Siemens Driver for ESA PCI CIB	ZT-ESA32	1SAS056061R0750
Siemens Driver for VIPA CE touchpanel	ZT-VIPA32	1SAS056154R0750
Siemens FMS with PC card from Siemens ¹⁾	ZT-FMSNT	1SAS056177R0750
Siemens Hilscher MPI driver ¹⁾	ZT-OPENMPI	1SAS056079R0750
Siemens HMI adapter driver	ZT-S7HMI	1SAS056078R0750
Siemens IEC 60870-5-101_104 driver	ZT-IEC870	1SAS056012R0750
Siemens IEC 61400-25-4 Annex C	ZT-IEC61400-25-4-C	1SAS056007R0750
Siemens IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
Siemens IEC-62056-21 Driver ¹⁾	ZT-IEC62056	1SAS056093R0750
Siemens integra driver ¹⁾	ZT-INTEGRA	1SAS056048R0750
Siemens PC Adapter - Vipa Green Cable	ZT-S7PCADAPTER	1SAS056081R0750
Siemens PCS807 Profibus DP driver	ZT-PCS80732	1SAS056123R0750
Siemens PCS812 S7 connection	ZT-PCS812	1SAS056122R0750
Siemens S5 H1 driver ¹⁾	ZT-S5H1NT	1SAS056096R0750
Siemens S5 TCP-IP driver ¹⁾	ZT-S5TCP32	1SAS056097R0750
Siemens S7 driver for S7-200	ZT-S7PPI200	1SAS056218R0750
Siemens S7 driver Softnet based ¹⁾	ZT-S7NT	1SAS056099R0750
Siemens S7 MPI for Siemens CE terminals	ZT-MPI	1SAS056150R0750
Siemens S7 Spont ¹⁾	ZT-S7SPONT	1SAS056231R0750
Siemens S7 TCP-IP driver	ZT-S7TCP	1SAS056098R0750
Siemens S7-Driver for S7-1200/1500 ¹⁾	ZT-S7TIA	1SAS056233R0750
Siemens Siclimat X Decos ¹⁾	ZT-S7DCOS	1SAS056221R0750
Siemens S5 PD driver	ZT-S5PG32	1SAS056213R0750
Siemens Sigmasys driver ¹⁾	ZT-SIGMASYS	1SAS056220R0750
Siemens Simotion driver ¹⁾	ZT-SIMOTION	1SAS056226R0750
Siemens TI 505 - 545 driver ¹⁾	ZT-TI500	1SAS056046R0750
Siemens WINAC driver ¹⁾	ZT-S7AC41x32	1SAS056217R0750
SIGMATEK driver ¹⁾	ZT-SIGMA32	1SAS056234R0750

¹⁾ Not available on WIN CE and WIN Embedded Compact

Description	Type	Order Code
Sigmathek Lasal Driver	ZT-STLASAL	1SAS056235R0750
Sinthesi PLCnet driver	ZT-SINTH	1SAS056236R0750
SNMP Driver ¹⁾	ZT-SNMP	1SAS056237R0750
SNMP driver New Generation ¹⁾	ZT-SNMPNG32	1SAS056238R0750
Sprecher Automation IEC 60870-5-101_104 driver	ZT-IEC870	1SAS056012R0750
Sprecher Automation IEC 61400-25-4 Annex C	ZT-IEC61400-25-4-C	1SAS056007R0750
Sprecher Automation IEC 61850 driver	ZT-IEC61850	1SAS056005R0750
SQL Driver ¹⁾	ZT-SQLDRV	1SAS056039R0750
SQL Write variable values in SQL ¹⁾	ZT-ExportSQL	1SAS056243R0750
straton OPC UA Client driver	ZT-OPCUA	1SAS056041R0750
straton / zenonLogic driver	ZT-STRATON	1SAS056030R0750
straton NG driver	ZT-StratonNG	1SAS056032R0750
Telco200 driver ¹⁾	ZT-TELCO_32	1SAS056247R0750
Telemecanique Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
Telemecanique Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
Telemecanique Modicon TSX Micro driver	ZT-MODICON	1SAS056139R0750
Texas Instruments CTI driver	ZT-CTI	1SAS056047R0750
Texas Instruments TI 505 - 545 driver ¹⁾	ZT-TI500	1SAS056046R0750
Trend Driver ¹⁾	ZT-TREND32	1SAS056253R0750
Trend NG driver ¹⁾	ZT-TrendNG	1SAS056254R0750
VDMA-XML driver	ZT-VDMA_XML	1SAS056121R0750
Vipa Driver for ESA PCI CIB	ZT-ESA32	1SAS056061R0750
Vipa Driver for VIPA CE touchpanel	ZT-VIPA32	1SAS056154R0750
Vipa HMI adapter driver	ZT-S7HMI	1SAS056078R0750
Vipa PC Adapter - Vipa Green Cable	ZT-S7PCADAPTER	1SAS056081R0750
Vipa PCS812 S7 connection	ZT-PCS812	1SAS056122R0750
Vipa S5 H1 driver ¹⁾	ZT-S5H1NT	1SAS056096R0750
Vipa S5 TCP-IP driver ¹⁾	ZT-S5TCP32	1SAS056097R0750
Vipa S7 driver Softnet based ¹⁾	ZT-S7NT	1SAS056099R0750
Vipa S7 TCP-IP driver	ZT-S7TCP	1SAS056098R0750
Volkswagen Internal driver with time stamp	ZT-Reflect	1SAS056265R0750
Vollmer Telco200 driver ¹⁾	ZT-TELCO_32	1SAS056247R0750
Wago Modbus Energy driver	ZT-MODBUS_E	1SAS056006R0750
Wago Modbus RTU and Open Modbus TCP	ZT-MODRTU32	1SAS056004R0750
Wago straton / zenonLogic driver	ZT-STRATON	1SAS056030R0750
Wago straton NG driver	ZT-StratonNG	1SAS056032R0750
zenon system driver Driver for internal variables	ZT-DDE	1SAS056040R0750
zenon system driver Driver for Mathematics variable	ZT-DDE	1SAS056040R0750
zenon system driver Driver for simulator variables	ZT-DDE	1SAS056040R0750

¹⁾ Not available on WIN CE and WIN Embedded Compact

Description	Type	Order Code
zenon system driver Driver for system variables	ZT-DDE	1SAS056040R0750
zenon system driver Remote Runtime driver ¹⁾	ZT-RemoteRT	1SAS056042R0750

¹⁾ Not available on WIN CE and WIN Embedded Compact

zenon Gateways

Connecting the Internet of Things

The zenon Process Gateway helps to connect to super ordinate systems securely. It incorporates itself into Runtime as an add-on and makes the desired connection. The zenon process gateway supports many different standards such as for example OPC UA, SQL, SAP, MS Azure, IEC 60870 Slave, Modbus Slave, DNP3 Slave, SNMP Server.

For machine to machine communication, zenon utilizes standards like Weihenstephan and PackML.

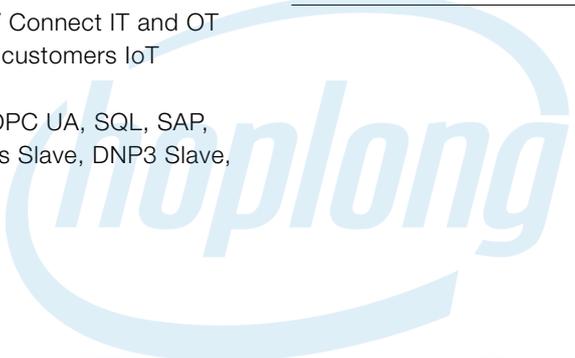
Together with more than 300 zenon communication protocols and drivers, these make zenon the key node in an Internet of Things (IoT) strategy.

Advantages:

- Add-on for zenon Runtime
- Connects to superordinate systems/ Connect IT and OT
- Make zenon the entry point for your customers IoT strategy
- Supports many standards such as OPC UA, SQL, SAP, MS Azure, IEC 60870 Slave, Modbus Slave, DNP3 Slave, SNMP Server

zenon Gateways

Description	Type	Order Code
Process Gateway - OPC Server	ZGW-OPC	1SAS053083R0750
Process Gateway - OPCUA Server	ZGW-OPCUA	1SAS053084R0750
Process Gateway - Modbus Slave	ZGW-MODBUS	1SAS053085R0750
Process Gateway - DEC Slave	ZGW-DEC	1SAS053086R0750
Process Gateway - SNMP Server	ZGW-SNMP	1SAS053087R0750
Process Gateway - DNP3 Slave	ZGW-DNP3	1SAS053088R0750
Process Gateway - SQL Online	ZGW-SQL	1SAS053089R0750
Process Gateway - ICCP/TASE.2/IEC 60870-6	ZGW-ICCP	1SAS053090R0750
Process Gateway - IEC60870 Slave	ZGW-IEC60870SL	1SAS053091R0750
Process Gateway - MS Azure	ZGW-AZU	1SAS053092R0750


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zenon Editor

Engineering productivity

The zenon Editor is the control center for engineering productivity.

The zenon Editor integrates with Automation Builder, for a simple engineering workflow of ABB's factory automation hardware, including drives, PLC, panels, motion and robotics applications.

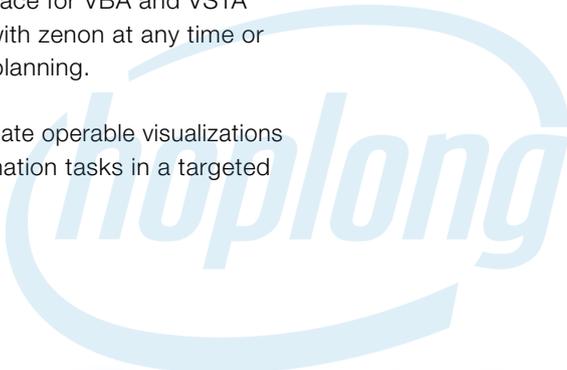
All modules need the same data basis and can be easily activated at any time via licensing. The Editor can be put together, tailored exactly to specific tasks and needs: Projects can be developed using easy and secure parameter settings of properties.

zenon brings even complex functionalities "out of the box". However, the well documented interface for VBA and VSTA enables to link individual programs with zenon at any time or to completely automate the project planning.

The zenon Editor makes it easy to create operable visualizations and to carry out very complex automation tasks in a targeted and safe way.

Advantages:

- Fully integrated with Automation Builder, the engineering productivity suite for drives, PLC, panels, motion and robotics
- Ready to use templates for easy engineering
- Project versioning ensure a clear project organization and show change history
- An own wizard enables project comparison
- All pre-configured objects can be reused across projects.
- Many intelligent and individually configurable wizards and program assistants ease engineering, automatically take over complex tasks or perform project planning steps.
- Multiple user engineering environment



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zenon Analyzer

Better business decisions based on realtime information insight.

With zenon Analyzer you have complete data transparency across your entire production. This wealth of production data and meta data (e.g. shifts, alarms, prices) is made accessible and understandable by the concise zenon Dynamic Production Reports.

Dynamic Production Reporting is the zenon approach to analyzing production data – as it happens. Dynamic Production reporting enables you to make immediate decisions on how to enhance your production efficiency and output. By dynamically optimizing production in this way you can achieve significant savings in costs and resources and match supply and demand far more closely.

zenon Analyzer delivers ready-made report templates like Production Reports, Reports for Energy Data Management or Operational Efficiency Reports

Production reports aggregate information per batch, article, or time filters, and allow for quality documentation or alarm management.

Consumption optimization reports show consumption evolution, cost distribution and correlation with the production, for media such as water, energy, compressed air, chemicals etc.

Reports for Energy Data Management concentrate data required by the TÜV SÜD Standard “Efficient Energy Data Management” chapter 5.6.1 Monitoring, measurement and analysis of the ISO 50001 standard.

Efficiency reports calculate KPIs such as OEE (Overall Equipment Effectiveness) over a selected period of time and production equipment

Advantages:

- Better business decisions based on realtime production data
- Complete data transparency across the entire production improves your production by increasing production effectiveness
- Supports monitoring, measurement and analysis of energy data (like the ISO 50001 standard)
- Eliminates waste by optimizing energy and material consumption enables up-to-date benchmarks with historical production data
- Supports quality control
- Supports daily activity of production teams with reports focused on production entities (batch, articles, shifts, etc.)
- Easy integration of a huge variety of online and offline data sources
- Easy integration of new equipment

zenon Analyzer

Description	Type	Order Code
zenon AN 1 Client	ZAN-1	1SAS053114R0750
zenon AN 3 Client	ZAN-3	1SAS053115R0750
zenon AN 5 Client	ZAN-5	1SAS053116R0750
zenon AN 10 Client	ZAN-10	1SAS053117R0750
zenon AN 15 Client	ZAN-15	1SAS053118R0750
zenon AN 25 Client	ZAN-25	1SAS053119R0750
zenon AN 50 Client	ZAN-50	1SAS053120R0750
zenon AN 100 Client	ZAN-100	1SAS053121R0750
zenon AN 200 Client	ZAN-200	1SAS053122R0750
zenon AN DATA Concentrator 16384 TAGs	ZAN-DC-16384	1SAS053131R0750
zenon AN DATA Concentrator 65535 TAGs	ZAN-DC-65536	1SAS053132R0750
zenon AN DATA Concentrator Unlimited TAGs	ZAN-DC-UNLMTD	1SAS053133R0750

zenon Energy Edition

Outstanding automation performance, stability and scalability

International system integrators use zenon Energy Edition as a reliable and open platform, with special features for the Energy Industry that save valuable project configuration time. For both large and small power companies, zenon Energy Edition delivers outstanding automation control, performance, stability and scalability.

zenon Energy Edition is the industry-specific IoT software solution for power plant automation and substation automation, grid control technology and wind park management.

zenon Energy Edition is a package with special functionality for the energy sector and the procedural technology. The user benefits from easy-to-implement functions that allow for an individual adjustment of the application to the physical environment.

The drivers guarantee adherence to international standards such as IEC 61850/ IEC 61400-25, IEC 60870 and DNP3. With the seamless integration of zenon Logic, the IEC 61131-3 based PLC system, zenon Energy Edition becomes a comprehensive solution for energy automation.

zenon Energy Edition meets all requirements; from flexible and secure communication, visualization and control, to comprehensive reporting. Save time and money with one integrated solution.

Advantages:

- Built-in drivers for communication
- Effective visualization and control projects
- Powerful reports out of the box
- Gateway configuration for IEC 60870 or DNP3
- SCL Editor for IEC 61850 documents
- Integrated IEC 61131-3 programming
- Analyzation with built-in Data Historian
- Safe command processing with the Command Sequencer

zenon Energy Edition

Description	Type	Order Code
zenon EE Server 1500 TAGs	ZEE7-SRV-1500	1SAS050067R0750
zenon EE Server 4500 TAGs	ZEE7-SRV-4500	1SAS050068R0750
zenon EE Server 7000 TAGs	ZEE7-SRV-7000	1SAS050069R0750
zenon EE Server unlimited TAGs	ZEE7-SRV-UNLMTD	1SAS050070R0750
zenon EE Server 750 TAGs emb	ZEE7-SRV-750E	1SAS050071R0750
zenon EE Client 1500 TAGs	ZEE7-CLI-1500	1SAS050072R0750
zenon EE Client 4500 TAGs	ZEE7-CLI-4500	1SAS050073R0750
zenon EE Client 7000 TAGs	ZEE7-CLI-7000	1SAS050074R0750
zenon EE Client unlimited TAGs	ZEE7-CLI-UNLMTD	1SAS050075R0750
zenon EE Client 750 TAGs emb	ZEE7-CLI-750E	1SAS050076R0750
Energy Edition Editor Option for Server	ZEE7-ED	1SAS050077R0750
Energy Edition Editor Standalone version	ZEE7-ED-SA	1SAS050078R0750
zenon Energy Edition Editor - Complete	ZEE7-DEV-COMP	1SAS050079R0750
Topology 7000	ZM-TOP-7000	1SAS053178R0750
Topology Unlimited	ZM-TOP-UNLMTD	1SAS053179R0750
Command Sequencer 7000	ZM-CS-7000	1SAS053180R0750
Command Sequencer unlimited	ZM-CS-UNLMTD	1SAS053181R0750

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Life cycle management for maximum return on investment

ABB has developed an automation products life cycle management model aimed at providing proactive services for maximizing availability and performance. This model not only provides optimum support to end-users but also a smooth transition to a new product when the system has come to the end of its lifetime.

The life cycle management model divides a product's life cycle into four phases: active, classic, limited and obsolete. Each phase has different implications for the end-user in terms of services provided.

Product life cycle management model



Active phase

The active phase starts when the product is launched. In the active phase the end user benefits from different warranty options and other services such as training and technical support. Complete life cycle services from spare parts and maintenance are also provided. The active phase ends when the volume production of a particular zenon version ceases and ABB issues an announcement of the life cycle phase change.

Classic phase

ABB zenon users continue to benefit from complete life cycle services throughout the classic phase. The classic phase is closely aligned with ABB's research and development work to provide continuing support for its zenon products while developing future generations. In the classic phase development may be required to provide the maintenance techniques and upgrades needed to guarantee that zenon continues to operate at its peak performance. Migration to a new zenon version is recommended before the product has entered the limited phase.

Limited phase

In the limited phase the product development has come to its end. Spare parts are available as long as components and materials can be obtained. Towards the end of the limited phase, services gradually become obsolete. In addition to the annual life cycle status reviews, ABB issues a life cycle phase change announcement, half a year prior the product becoming obsolete. This is the last opportunity to transfer to new technology before product services end.

Obsolete phase

The product is transferred to the obsolete phase when it is no longer possible to provide services at reasonable cost or when ABB can no longer support the product technically or the old technology is not available.

Benefits of life cycle management

The zenon software life cycle management maximizes the value of the equipment and its maintenance investments by:

- ensuring spare parts and ABB competence availability throughout the lifetime
- enabling efficient product support and maintenance for improved reliability
- adding functionality to the initial product by upgrading or retrofitting
- providing a smooth transition to new technology at the end of the product lifetime



Services offered for ABB's automation products span the entire asset lifetime, from the moment a customer makes the first inquiry to disposal and recycling of the product. Throughout the life cycle of an asset, ABB provides training, technical support and customized contracts, supported by one of the world's most extensive global sales and service networks.

Pre-purchase

ABB provides a range of services and support guiding the customers to the ideal products for their applications.

Order and delivery

Orders can be placed at any ABB office or channel partner. In some countries, ABB also offers an online order tracking system. ABB's sales and service network ensures timely deliveries and also offers express delivery.

Installation and commissioning

While many customers have the resources to perform installation and commissioning on their own, ABB and its channel partners offer professional installation and start-up services, as well as solution development support for OEM and System Integrators.

Operation and maintenance

From maintenance assessments, preventive maintenance, reconditioning of spare parts and repairs on-site or in workshops, ABB has all the options covered to keep their customers' processes operational.

Upgrade and retrofit

Frequently, ABB products can often be upgraded to the latest software or hardware in order to improve the performance of the application. Existing processes can be economically modernized by retrofitting with up-to-date technology.

Replacement and recycling

ABB provides assistance in the best replacement of products while ensuring disposal and recycling observing the local environmental regulations.

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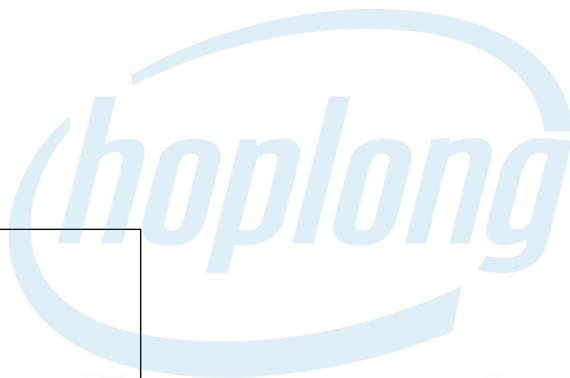
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