



straton

STRATON

IEC 61131-3 IDE (INTEGRATED DEVELOPMENT ENVIRONMENT)

Highlights

- **Powerful text and graphics editors for IEC 61131-3 languages**
- **Platform-independent SoftPLC suite for SENECA controllers**
- **Integrated Development Environment available in demo version or with 256, 512 and unlimited tags**
- **I/O and fieldbus configuration**
- **Language conversion**
- **Export data exchange and telecontrol libraries**
- **IEC 60870-101/104 and IEC 61850 communication protocols**
- **USB key for licensing activation**

Straton offers a development environment that supports several languages: English, French, German, Italian, Korean, Spanish, and more. It provides a single window for user friendliness and a simple toolbar which allows for easy adaptation by the user. The development environment uses a “drag & drop” approach and is completed with powerful online help tool. The five programming languages of the IEC 61131-3 standard are supported: Sequential Function Chart (SFC), Function Block Diagram (FBD), Ladder Diagram (LD), Structured Text (ST), and Instruction List (IL). STRATON is certified by PLCOpen at compatibility level for ST language. IEC code can be imported from various formats (PLCOpen TC6, Simulink ST, etc.).

For SENECA Energy Management applications offers different types of controller, Z-TWS4-E, Z-PASS2-S-E, S6001-RTU-E supporting IEC 60870-101/104 and IEC 61850 communication protocols. These units can be used as redundant controllers for plant automations, management energy produced, energy plant management renewables (biomass, photovoltaics, wind, etc.), development of smart grid etc.

IDE activation key is a key protection hardware for connection to the USB interface of PCs, Apple Macintosh and others. The USB interface guarantees trouble free communication even if many different devices are connected and easy implementation to any system.



IEC 61131-3 PLC PROGRAMMING



Evolution of IEC 1131 published in 1992, the IEC 61131 standard represents the most successful effort to standardize industrial control technologies by bringing back to an international standardisation system.

The third part of the standard, IEC61131-3, deals with programming languages used in controllers industrialists. In the standard are defined text programming languages (list instructions, structured text) and graphs (contact diagram, block diagram function, sequential function diagram).

According to IEC 61131-3 Plc programs are made up of a number of software elements, implemented in different languages.



PACKAGE

SENECA Straton Package

is a platform-independent SoftPLC suite of software required for the use of SENECA Straton CPUs such as Z-TWS11, Z-TWS4, Z-PASS2-S and S6001-RTU.

The purpose of this suite is to facilitate the user in the installation of all necessary software packages via a single installer.



IDE

SENECA Straton IDE

(Integrated Development Environment) is available in demo version or with 256, 512 and unlimited tags. It runs as a design, programming and testing interface with language supported by IEC 61131-3 standards (ST, IL, FBD, SFC, LD). It includes tools I/O and fieldbus configuration, language conversion, export data exchange and telecontrol libraries.

IDE STRATON ACTIVATION KEY



- **Interface:** USB 1.1, USB 3.0/2.0 compatible and certified
- **Data retention:** 10 years at 25°C
- **Data endurance:** >500.000 write cycles
- **Power supply:** 5 V max.
- **Power Consumption:** ASIC 3851 and higher: 25 mA max. (typical 5 mA / 190 µA configured / unconfigured)
- **Temperature:** 0...55° C, non-condensing
- **MTBF (Mean Time Between Failures):**28 Mio. hours@25°C according to standard SN29500-1
- **Lifetime:** 10 years typical
- **Case/Dimensions:** 54 mm x 16 mm x 8 mm
- **Weight:** 6 g

RoHS compliant
WEEE-Reg-No:
DE 90465365



ORDER CODES

Code	Description
STRATON-D-USB	Straton activation key for IEC 61131 controllers
STRATON-IDE256	Straton development environment, 256 tags, USB activation key
STRATON-IDE512	Straton development environment, 512 tags, USB activation key
STRATON-IDEUN	Straton development environment, unlimited tags, USB activation key
STRATON-870S	IEC 60870-5-101/104 Slave activation license
STRATON-870S-850	IEC 60870-5-101/104 Slave activation license+ IEC 61850 Client / Server
SSP	SENECA Straton Package - CPU Seneca Installer suite
STRATON-UPGRADE1	STRATON UPGRADE From 256 To 512 tag
STRATON-UPGRADE2	STRATON UPGRADE From 512 To Unlimited tags
STRATON-UPGRADE3	STRATON UPGRADE From 256 To Unlimited tags
STRATON-WB	Straton workbench IEC 61131 free editor