

# straton Embedded Tools

## Software components for embedded platforms

straton's IEC 61131-3-based technology is designed for all automation solutions; from machinery, and controllers, to drives manufacturers, system integrators and machine builders. The technology fulfils the four key requirements we apply to all our products: small, smart, simple and speedy.



### SIMPLIFY CONFIGURATION

The straton Integrated Development Environment (IDE) includes a hardware and fieldbus configuration tool to support different kinds of networked I/Os or protocols. This enables users to represent networks as tree diagrams or graphical views, and to connect variables to the I/O channels of hardware devices.

### SECURE APPLICATIONS & REDUNDANCY

All key application information is stored in one unique block of memory. Flexible redundancy mechanisms enable a hot restart of the application. A standard redundant implementation through Ethernet is delivered via the straton PLC engine, using a proprietary protocol and without requiring specific programming.

### REDUCE ENGINEERING TIME

The straton Project Automation Tool enables users to automate the import and export of information from databases or other tools directly into the application. This includes variable definitions, and I/O configurations as well as application programs generated automatically or copied from existing templates.

### IEC 61131-3 PROGRAMMING

The straton Integrated Development Environment is a set of powerful text and graphical editors for all five IEC61131-3 languages: Sequential Function Chart (SFC), Function Block Diagram (FBD), Ladder Diagram (LD), Structured Text (ST) and Instruction List (IL). Syntax-oriented editors with auto-completion and coloring are available for all languages. A fully integrated toolset based on Subversion (SVN) enables version control and the sharing of the application among developers. A powerful variable browser enables quick and easy navigation in the project.

### COMMISSIONING & DEBUGGING

straton provides built-in simulation and online debugging in various modes of operation such as cycle by cycle, step by step, breakpoint and automated test sequences.

### COMMUNICATION

straton supports a wide range of industry standard protocols for various sectors and application areas including automotive, building automation and energy. These include: CAN/CANopen/J1939, MODBUS, PROFINET, ASI, IEC 60870-101, IEC 60870-104, DNP 3, IEC 61850, BACnet, Powerlink, Ethercat, EtherNet/IP.

### FAST FACTS

- ▶ Energy
- ▶ Motion control and drives
- ▶ Science and education
- ▶ IEC 61131-3