

RTU32 Software v. 1.10 - Release notes

General

RTU32 with software Version 1.10

RTU32 in software version 1.10 support as follows;

- STRATON WorkBench version SR5 – all basic functions. Included are also binding / dual binding functions for fast network communication and redundant connectivity.
- STRATON WorkBench version SR6 / SR6-2 – all standard functions excluding C+ compiler options and redundant functions. In addition HMI function with graphic HMI design for RTU32 HMI WebServer.
- In addition to all the standard functions in STRATON, the specific RTU32 functions are as follows;
 - o I/O Driver for Internal and external I/Os boards.
 - o I/O configuration lock functions.
 - o Forced saving of retained variables to RAM.
 - o Enhanced serial port handling with handshake.
 - o Dial functions for serial drivers.
 - o Realtime function with milli sec resolution and adjustability.
 - o Log file function
 - o Create/read/write text file functions.
 - o Driver for EN/IEC60870-5-101 Master and Slave.
 - o Driver for EN/IEC60870-5-104 Server (NUC compliant. optional).
 - o SNMP Agent driver for network management functions (optional).
 - o Debug facilities via port911.
 - o HMI WebServer function with dynamic web interface (optional)
 - o USB port drivers for MS mouse and keyboard

In order to take advantage of all the listed function, you must use the latest STRATON WorkBench version SR6-2.

RTU32 Licensing:

When you purchase any RTU32, a MS WinCE License and an RTU32 standard runtime is included. The SNMP and HMI options are NOT standard and have to be ordered separately.

STRATON WorkBench Licensing:

Every STRATON WorkBench requires a license and a dongle / hard key.

In order to activate your license you must:

- Run the "License" command in the STRATON group of the Start menu, and enter your license number (press Add button)
- Plug the hardware key (dongle)

If no valid license is entered, the Workbench operates in demo mode.

Limitations in demo mode:

- Applications are limited to 40 I/Os
- The code generated by the compiler stops after 15 minutes
- The simulation stops after 15 minutes

The STRATON WorkBench in the standard version includes support for programming both RTU32 HMI and SNMP functions.

STRATON WorkBench SR6-2 - New features

System requirements:

- PC with Pentium II at 500MHz
- Windows Win2000 or WindowsXP operating system
- 128 MB of RAM
- 50 MB of available disk space
- 800x600 screen resolution (1024x768 / true colours recommended)
- mouse

The STRATON WorkBench versions as of SR6 include the following new functions:

New features in version SR6-2:

- The STRATON Workbench is now available in Korean
- In a given project, you can use objects from other projects and thus manage your own libraries with IEC written function blocks
- Protection of programs by encryption
- The CASE statement can be used with any numbers and STRING switches
- The variable editor now allows you to enter initial values for arrays
- STRATON now supports MODBUS networking on UDP
- New function blocks are available for instantiating MODBUS slave ports (MBSlaveRTU / MBSlaveUDP)
- The register functions now accept arguments with "ANY" data type
- Many new blocks have been added to the standard libraries. Especially for data conversions etc. See the "On Line Help" home page for details
- A new wizard is available in the "Program properties" box for editing parameters of a UDFB or sub-program
- The viewing of execution order can be turned off in the FBD editor
- A new Fieldbus Configurator is available for access to WIN32 shared memory
- You can hide some blocks/categories in the list of available blocks
- Sorting programs by names is now an option from the context menu
- In FBD, you can drag the "cut" segment of a line with the mouse
- A new command is available in FBD to insert blank lines at the mouse position
- New in the options box: you can select what to display in editors tooltips

RTU32 software version 1.20 – release spring 2007

RTU32 software version 1.20 is planned.

RTU32 software version 1.20 supports:

- STRATON WorkBench version SR5 and SR6 – all basic functions. Included are also binding / dual binding functions for fast network communication and redundant connectivity.
- STRATON WorkBench version SR6 – all standard functions excluding C+ compiler options and redundant functions. HMI function is improved – entering of filenames etc in setup is saved and do not have to be entered every time.
- New watchdog functions are added. A CPU and WinCE independent watchdog on the power supply is implemented to monitor tasks running in WinCE. That includes general WinCE system tasks, the STRATON VM etc. The function has been available for a while but will be introduced with the new power supply hardware also supporting UPS.
- UPS function for controlling and monitoring the UPS power supply functions is added. Some Function Blocks are added to give information on UPS status which include mains alarm, low battery alarm and battery voltage.
- Support for Hilscher PC104 fieldbus boards.
- Battery back RAM for saving all retained variables.

More options to come.....