

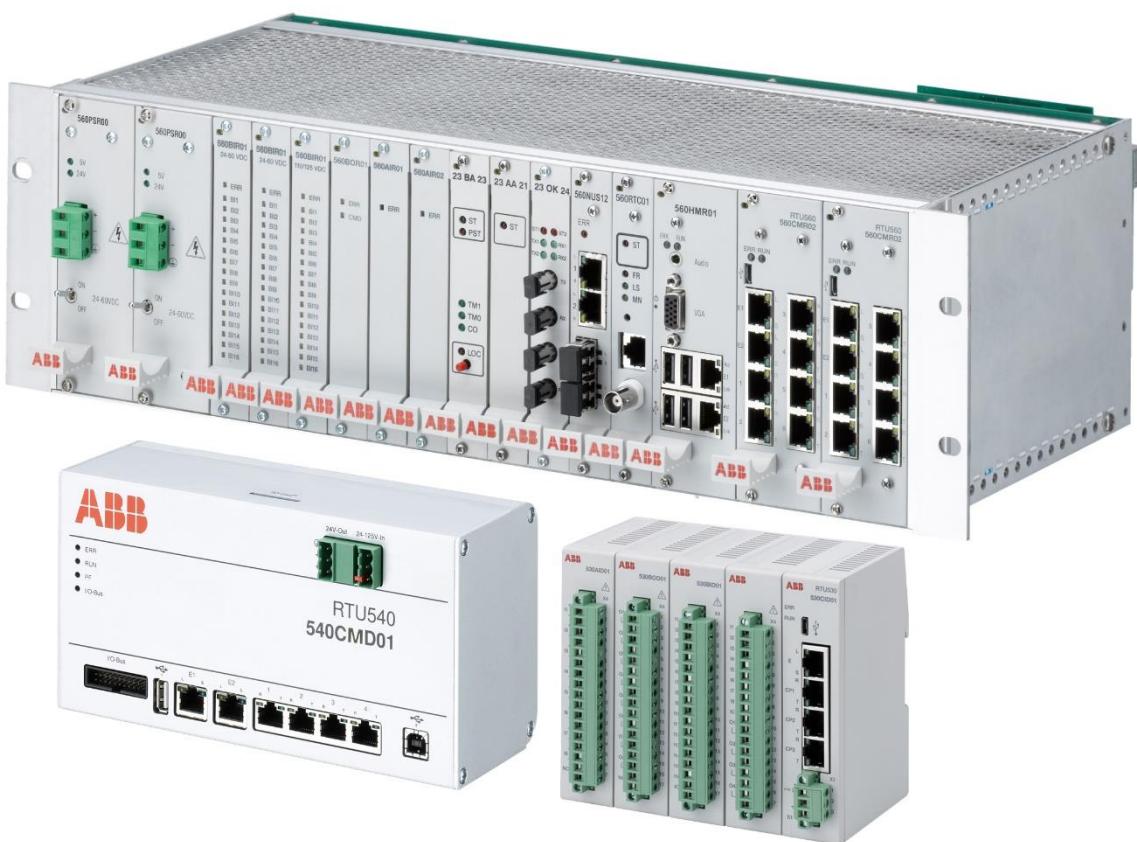
Release 13.4

RTU500 series

With Release 13.4 we introduce new hardware and functions to the RTU500 series

Release authorized by:

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1.1.1. Introduction

This RTU500 release 13.4 introduces new hardware and features to RTU500 series:

New Hardware:

- Update of RTU530 CMU module 530CID01 with buffered RTC and crypto chip
- Analog input module 530AID02 for V inputs
- Fault detection module 500CVD91 for ABB sensors

New features:

- Typical/instance concept in RTUtil500 engineering tool
- 2 VPN tunnel per CMU
- Support of up to 4 SCADA system in case of redundant DNP3 host communication
- DNP3 host communication supports object group 23 frozen counter event

For some projects small improvements has been introduced.

1.1.2. Technical requirements and supported products

This release is supported by the RTU500 series functionality based on RTU530, RTU540 (ARM based) and RTU560 (ARM based) product lines.

1.1.3. New functions:

530CID01R0003 CMU module:

The CMU module 530CID01 is now available with buffered real time clock and crypto chip. With that functions the RTU530 has a valid time after outage of power supply and is prepared for future cyber security functions in RTU500 portfolio. The ordering code is 530CID01R0003, 1KGT049400R0003

Datasheet →[link](#)

Analog input module 530AID02:

With the analog input module 530AID02 it is possible to connect voltage signals to RTU530. The module has 8 inputs for the following signals:

- ± 1 V DC
- ± 2 V DC
- ± 10 V DC
- ± 20 V DC
- Resolution 16 bit, accuracy $\leq 0,1\%$

The ordering code is 530AID02R0001, 1KGT051700R0001

Datasheet →[link](#)

Fault detection module 500CVD91:

The fault detection module 500CVD91 is designed to support the ABB sensor modules (voltage divider and Rogowski coil, KECA, KEVA, KEVCD) for measurand and ANSI fault detection functions like over current, overcurrent direction, under/over voltage, earth fault detection, disturbance recorder.

Complete function overview and ANSI function see datasheet

The module is functionality like comparable with the 500CVD90.

For 500CVD91 we run a TSA process. Please contact sales team if you like to offer.

Datasheet →[link](#)

Typical/Instance concept RTUtil500:

With the new typical/instance concept in RTUtil500 it is possible now to create hundreds of download files for instances of an RTU typical. This is useful for projects with hundreds of RTU's with the same Hardware configuration (typical) but on different places (instances) in the network (e.g. Ring main units, pole top applications, water station, railways).

If customer has his own engineering data environment (e.g. EXCEL, SQL, XML based) an automation interface based on PowerShell or C# is available. Example files will be provided by RTU technical hot-line team.

This interface will reduce the engineering effort to minimum and prevent manually manipulation of existing RTU projects (e.g. modifications of station names or IP addresses).

RTUtil500 user manual, chapter 17 → [link](#)

2 VPN tunnel per CMU module:

With Release 13.4 it is possible now to configure 2 VPN tunnel per CMU module. It is possible to run encrypted communication to 2 independent networks on one CMU module (e.g. main / backup SCADA or SCADA and remote maintenance PC). This solution reduces the number of required CMU modules per project and assist to keep the hardware and license costs low. Secure VPN tunnel can be used for TCP/IP based communication protocols, Webserver access, access to integrated HMI.

Network and interfaces, chapter 3.3 → [link](#)

Up to 4 SCADA systems in DNP3 redundant

Up to 4 host systems can be address now with the DNP3 redundant line/network. (e.g. Main 1, Main 2, backup, emergency system). A mixture of serial and TCP/IP connections is supported.

DNP3 Host communication interface, chapter 12 → [link](#)

DNP3 host communication supports object group 23 frozen counter event

In case a freeze operation for ITI is performed, a frozen counter event will be generated.

Details you can find in the DNP3 host communication description.

DNP3 Host communication interface, chapter 8.6 → [link](#)

1.1.4. Ordering and delivery information

The hardware and licenses can be ordered via the known channels and are part of the updated RTU500 Pricelist.

More information will be provided by the responsible sales manager or your local Hitachi Energy sales representative and during the offered webinars.

See also: Link to [RTU500 Webpage](#)

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