

## Firmware change-log of new features and bug fixes of the u-remote field bus coupler: 1334920000 UR20-FBC-EIP

### Firmware updating Information:

An update of the firmware can be done via the embedded web server. A description of the firmware update can be found in the u-remote web server manual on the Weidmüller website: [www.weidmueller.com](http://www.weidmueller.com)

**Version 02.17.00      Hardware Version 01.xx.xx      Release date: July, 2025**

#### **New supported modules:**

- 2819690000 - UR20-4COM-IO-LINK-V2
- 3096630000 - SAI-AU-M8-SB-8DO-2A-V2
- 3096500000 - SAI-AU-M8-SB-8DI-V2
- 3096510000 - SAI-AU-M8-SB-8DIO-V2
- 3096490000 - SAI-AU-M12-SB-8DO-2A-V2
- 3096470000 - SAI-AU-M12-SB-8DI-V2
- 3096480000 - SAI-AU-M12-SB-8DIO-V2

#### **New features:**

- Added "Continue data exchange" as an option for the parameter "Output behaviour on idle state"

**Version 02.16.00      Hardware Version 02.xx.xx      Release date: February, 2025**

#### **New features:**

- Improved hot swap properties - requires UR20-AUX-VSYS as last module on the station

**Version 02.15.00      Hardware Version 02.xx.xx      Release date: October, 2024**

#### **New supported modules:**

- 2920830000 - UR20-3EM-400V-AC-CT1A
- 2920840000 - UR20-3EM-400V-AC-CT5A
- 2920850000 - UR20-3EM-400V-AC-RC
- 2920860000 - UR20-3EM-400V-AC-333MV
- 2489840000 - UR20-1COM-CAN

#### **Bug Fixes:**

- Fixed implausible readings of module parameter via class 0x67
- WebApp: Fixed swapping of process data according to data format setting in hardware config file (L5X)
- Fixed BF LED behaviour in modular mode when using only an explicit connection
- Coupler doesn't reboot when the service "Set Attribute All" for class 0x67 "Module parameter" is used
- Input process data set to "0" for applications with power feed modules in case the module is powered off
- WebApp: Fixed display of substitute values for UR20-2PWM-I-2.5A-2DI-P

**Version 02.14.00      Hardware Version 02.xx.xx      Release date: November, 2023**

#### **Bug Fixes:**

- Gateway class (100), attribute "Module parameter" (115) gets initialized correctly

#### **New supported modules:**

- 2489840000 - UR20-1COM-CANOPEN
- 2828350000 - UR20-4AI-I-HART-ISO-16

**Version 02.13.00      Hardware Version 02.xx.xx      Release date: August, 2022**

#### **New supported modules:**

- 2697910000 - UR20-2PWM-I-2.5A-2DI-P

**Version 02.12.00      Hardware Version 02.xx.xx      Release date: December, 2021**

#### **New supported modules:**

- 2826800000 - UR20-1COM-232-485-422-V2

#### **New features:**

- Web application now displays Object Index offsets for any given I/O and parameter data object
- After starting web server's Force Mode, force state of DOs can directly be set to 'off' (previously only 'on' was available)
- New file manager for import and export of multiple files in web application
- Bit 11 of Status Word now indicates whether a module has been pulled

#### **Bug Fixes:**

- Fixed that in some scenarios of I/O configuration errors the Status Word Bit 6 remained 'false'
- Fixed that analogue output values could become 0 when maximum value is forced via webserver

#### **Caution:**

- This firmware requires "u-mation Device Configurator" ≥ version 1.3.1

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<b>Version 02.11.00</b>	<b>Hardware Version 02.xx.xx</b>	<b>Release date: February, 2021</b>
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#### **New supported modules:**

- 2705620000 - UR20-2AI-UI-16
- 2566090000 - UR20-2AI-UI-16-DIAG
- 2705630000 - UR20-2AO-UI-16
- 2566100000 - UR20-2AO-UI-16-DIAG
- 2617520000 - UR20-4AI-I-HART-16-DIAG

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<b>Version 02.10.00</b>	<b>Hardware Version 02.xx.xx</b>	<b>Release date: June, 2020</b>
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#### **New features:**

- Support of CIP-Bridging

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<b>Version 02.09.00</b>	<b>Hardware Version 02.xx.xx</b>	<b>Release date: March, 2020</b>
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#### **New supported modules:**

- 2566960000 - UR20-4AI-UI-ISO-16-DIAG
- 2566970000 - UR20-2AO-UI-ISO-16-DIAG

#### **New features:**

- Support of IO-LINK Device Configurator file upload via acyclic services
- Web server now offers to save a "Hardware config file" in I5x-format which can be imported into RA Studio 5000 as a subroutine which contains all the data objects of the station tagged and sorted per module
- Coupler now accepts the restoring or importing of module parameters after new modules have been added to the end of the station, as long as the order in the area of the modules that originally existed when the parameters were saved has not changed
- Web server now offers to save and load a "Customisation file" which contains station parameters and tag names in one file

#### **Bug Fixes:**

- Coupler now resends module parameters to UR20-1SM-50W-6DI2DO-P after power cycle of the module's external power supply
- "Retrieve calibration sheet" button in web server view of UR20-2AI-SG-24-DIAG works again

#### **Known issue:**

- Web server sometimes freezes after downgrade from firmware 02.09.00 until browser cache gets cleared

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<b>Version 02.08.00</b>	<b>Hardware Version 02.xx.xx</b>	<b>Release date: July, 2019</b>
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#### **New features:**

- Support of variable Process Data length for UR20-4COM-IO-LINK
- Support of acyclic services for UR20-4COM-IO-LINK, e.g. for download of configuration via PLC
- Web server accepts download of IO-Link configuration file during active fieldbus connection
- EULA confirmation on first start of web server
- New button in web server "Module parameters" replaces old parameter "Save module parameters"

#### **Bug Fixes:**

- Fixed that IE11 sometimes doesn't update web server after factory reset

#### **Known issue:**

- "Retrieve calibration sheet" button in web server view of UR20-2AI-SG-24-DIAG has no effect

**Version 01.08.00****Hardware Version 01.xx.xx****Release date: July, 2019****Two step update procedure:**

- First file to install: FB-EIP-APPL-0003741-01\_08\_00-2.bsc
- Second file to install: FB-EIP-CUSTOM-0003965-01\_09\_00-9.bsc

**New features:**

- Support of variable Process Data length for UR20-4COM-IO-LINK
- Support of acyclic services for UR20-4COM-IO-LINK, e.g. for download of configuration via PLC
- Web server accepts download of IO-Link configuration file during active fieldbus connection
- EULA confirmation on first start of web server
- New button in web server "Module parameters" replaces old parameter "Save module parameters"

**Bug Fixes:**

- Fixed that IE11 sometimes doesn't update web server after factory reset

**Known issue:**

- "Retrieve calibration sheet" button in web server view of UR20-2AI-SG-24-DIAG has no effect

**Version 02.07.00****Hardware Version 02.xx.xx****Release date: March, 2019****New supported modules:**

- 1315740000 - UR20-4COM-IO-LINK (requires Module Firmware version 01.02.00 or above)

**Bug Fixes:**

- Fixed behaviour of "Power supply error LED" in web server when output path isn't powered during startup
- Gateway is no longer mandatory when setting IP address in web server

**Version 01.07.00****Hardware Version 01.xx.xx****Release date: March, 2019****New supported modules:**

- 1315740000 - UR20-4COM-IO-LINK (requires Module Firmware version 01.02.00 or above)

**Version 02.05.00****Hardware Version 02.xx.xx****Release date: July, 2018****New supported modules:**

- 2489830000 - UR20-1SM-50W-6DI2DO-P
- 2456530000 - UR20-8DIO-P-3W-DIAG
- 2555940000 - UR20-8AI-RTD-DIAG-2W
- 2544660000 - UR20-4AI-UI-DIF-32-DIAG

**New features:**

- Added support of CIP Explicit Messaging, e.g. required for AB MicroLogix Series
- Service file and configuration file names now contain coupler type and serial number

**Bug Fixes:**

- Fixed that IE freezes after applying out of range parameter values occasionally

**Version 01.05.00****Hardware Version 01.xx.xx****Release date: July, 2018****New supported modules:**

- 2489830000 - UR20-1SM-50W-6DI2DO-P
- 2456530000 - UR20-8DIO-P-3W-DIAG
- 2555940000 - UR20-8AI-RTD-DIAG-2W
- 2544660000 - UR20-4AI-UI-DIF-32-DIAG

**New features:**

- Added support of CIP Explicit Messaging, e.g. required for AB MicroLogix Series
- Service file and configuration file names now contain coupler type and serial number

**Bug Fixes:**

- Fixed that IE freezes after applying out of range parameter values occasionally

**Version 02.04.00****Hardware Version 02.xx.xx****Release date: April, 2018****Information:**

- Couplers with hardware version  $\geq$  02.03.00 can't get downgraded below firmware version 02.04.00

**Version 02.03.00****Hardware version 02.xx.xx****Release date: December 2017**

#### **New features:**

- Reset button appears automatically when changes in parameter settings require a restart to take effect
- Added display of slot numbers to list of compatible modules after selecting a firmware file in multi-update view
- Added password policy and weak password check - default username and password will remain the same
- New languages for Web Server available for download. Korean, French, Spanish, Portuguese and Italian
- Added HTTPS support and new coupler parameter 'HTTPS settings'
- Attention: To use this function please update the coupler with the additional firmware file:
- FB-EIP-FSBL-0008562-01\_02\_00-8.bsc

#### **Bug Fixes:**

- Fixed issue that live module unplug/replug sometimes corrupts I/O mapping
- Fixed issue that re-installation attempt of language files sometimes causes an error message

#### **New supported modules:**

- 2457250000 - UR20-4DO-ISO-4A
- 2457240000 - UR20-8DI-ISO-2W

**Version 01.03.00      Hardware version 01.xx.xx      Release date: December 2017**

For couplers with a firmware version below 01.00.19 please see update information of version 01.00.19!

#### **New features:**

- Reset button appears automatically when changes in parameter settings require a restart to take effect
- Added display of slot numbers to list of compatible modules after selecting a firmware file in multi-update view
- Added password policy and weak password check - default username and password will remain the same
- New languages for Web Server available for download. Korean, French, Spanish, Portuguese and Italian

#### **Bug Fixes:**

- Fixed issue that live module unplug/replug sometimes corrupts I/O mapping
- Fixed issue that re-installation attempt of language files sometimes causes an error message

**Version 02.02.01      Hardware version 02.xx.xx      Release date: May 17, 2017**

#### **New features:**

- New data object 0x64/0x01/0x76 Unacknowledged Diag Status - a bit for each slot is set, if the respective module has one or more unacknowledged diagnoses

#### **Web Server:**

- Improved naming of parameter "Restore module parameters" and its option
- Tooltips for coupler LEDs
- Improved arrangement of module parameters and general information
- Display of raw process data next to converted physical value

#### **New supported modules:**

- 2456540000 - UR20-4AI-RTD-HP-DIAG
- 2453880000 - UR20-4AO-UI-16-M
- 2453870000 - UR20-4AO-UI-16-M-DIAG

**Version 01.02.01      Hardware version 01.xx.xx      Release date: May 17, 2017**

For couplers with a firmware version below 01.00.19 please see update information of version 01.00.19!

#### **New features:**

- New data object 0x64/0x01/0x76 Unacknowledged Diag Status - a bit for each slot is set, if the respective module has one or more unacknowledged diagnoses

#### **Web Server:**

- Improved naming of parameter "Restore module parameters" and its option
- Tooltips for coupler LEDs
- Improved arrangement of module parameters and general information
- Display of raw process data next to converted physical value

#### **New supported modules:**

- 2456540000 - UR20-4AI-RTD-HP-DIAG
- 2453880000 - UR20-4AO-UI-16-M
- 2453870000 - UR20-4AO-UI-16-M-DIAG

**Version 01.01.00      Release date: October 04, 2016**

For couplers with a firmware version below 01.00.19 please see update information of version 01.00.19!

#### **New features:**

- Additional coupler parameter “Output behaviour on idle” (fieldbus status occurs e.g. when an Allen Bradley PLC gets set to “program mode”)
- Module black list detection - coupler rejects incompatible modules (UR20-xxx-FSPS, UR20-xxx-FSOE)

#### **Bug Fixes:**

- Web server performance increased
- Optimized wording of options of coupler parameter “Save module parameter”
- Wording of UR20-2FCNT-100 in web server now matches with manual

#### **New supported modules:**

- 1990070000 - UR20-2AI-SG-DIAG

#### **Version 01.00.22**

**Release date: June 06, 2016**

#### **Attention:**

- Coupler with firmware versions < 01.00.19:
- The firmware update to 01.00.19 is mandatory before an update to a higher firmware is possible

#### **New features:**

- The configuration file of the coupler can be imported and exported

#### **Bug Fixes:**

- UR20-4DO-PN-2A : showing the switching mode: “n-switching” or “p-switching” instead of “0” or “1” in the web server
- UR20-2FCNT-100 : value range for current period and present period is corrected
- UR20-4AI-TC-DIAG: value range for temperature units F and K is correct implemented
- EDS files contain additional an icon file

#### **New supported modules:**

- 2001670000 - UR20-4AI-R-HS-16-DIAG
- 1993880000 - UR20-4AI-UI-DIF-16-DIAG
- 2007420000 - UR20-3EM-230V-AC
- 1315400000 - UR20-16DI-N-PLC-INT
- 1315450000 - UR20-16DO-N-PLC-INT

#### **Version 01.00.19**

**Release date: February 02, 2016**

#### **Attention:**

- Coupler firmware versions ≤ 01.00.19 need to be updated in two steps.  
(See separate PDF document: “Application Note Firmwareupdate UR20 coupler”).

#### **Bug Fixes:**

- Corrected behavior of module status LED in WEB-Server for UR20-PF-O-1DI-SIL, UR20-PF-O-2DI-SIL and UR20-PF-O-2DI-SIL-DELAY
- Fixed display of an error message during the coupler reset in the Web-Server.
- Fixed a bug in the Force Mode of the Web-Server.
- Change EDS file: added new configuration assembly 123

#### **New supported modules:**

- 1315440000 - UR20-16DO-N
- 1315750000 - UR20-1COM-232-485-422
- 2007430000 - UR20-1COM-SAI-PRO
- All SAI-AU Mx SB Modules (IP 67)

#### **Version 01.00.17**

**Release date: September 07, 2015**

#### **New features:**

- New web application – Note: It’s necessary to update the language file, if the coupler has an older FW-version ≤ 01.00.17
- Default password for the web server
- Web server by default accessible via Ethernet
- Parameters via file transferable to other coupler
- New parameter structure for the objects