

Firmware change-log of new features and bug fixes of the u-remote field bus coupler: 2476450000 UR20-FBC-MOD-TCP-V2

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.

Version: 02.18.00	Hardware Version: 01.xx.xx	Release Date: March, 2026
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Information

- Requires u-mation configurator >= 2.0.0
- Dual-LAN mode supported
- RSTP not supported
- Modbus registers 0x1032, 0x1033, 0x1162 deactivated

New Features

- WebApp: Functional extensions according to IEC 62443 and UR-E27
 - Account and User management setup is now mandatory for initial setup
 - Authorization enforcement requires a login per default
 - HTTPS communication protocol is now default
 - Roll based access control (RBAC)
 - Session timeout handling (default 15 min)
 - Audit logging capability with data export feature
 - New welcome screen with customizable system use notification
- WebApp: Simultaneous use of u-mation configurator possible
- WebApp: Added parameter to deactivate SNMP service, deactivated by default
- Changed default value of parameter "Writing access in multi-client operation" to "For client with first connection"

Bug Fixes

- Fixed new setting of parameter "Additional TCP Port" does not close connection of previous setting
- WebApp: Fixed missing message for coupler restart after firmware multi-update
- Fixed parameter "Watchdog predefined time" accept value "0xFFFF" (updated in user manual)

Known Issues

- After a downgrade to previous firmware versions, a power cycle for at least 30 seconds is required to make future firmware updates possible.

Version: 02.16.00	Hardware Version: 01.xx.xx	Release Date: March, 2026
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New Features

- Additional Modbus registers (0x1032, 0x1033, 0x1162) for monitoring active connections

Known Issues

- Dual-LAN mode not available

Version: 02.15.00	Hardware Version: 01.xx.xx	Release Date: January, 2026
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New Features

- Support of RSTP

Information

MAC address adaptation (due to RSTP implementation):

Now	Before
Device-/Bridge-MAC	Interface1-MAC
Port1-MAC	Interface2-MAC (was only available in Dual-LAN mode)
Port2-MAC	USB-MAC
Remote-USB-MAC	Remote-USB-MAC
USB-MAC	Remote-USB-MAC with U/L bit set (bit 1 of first octet)

Known Issues

- Dual-LAN mode not available

Version: 02.14.00 **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

Version: 02.13.00 **Hardware Version: 01.xx.xx** **Release Date: February, 2025**

New Features

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

Version: 02.12.00 **Hardware Version: 01.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

New Features

- New parameter Broadcast Frame Limit (0x1160-0x1161)

Bug Fixes

- Fixed byte order of Coupler Serial Number (0x1020-0x1027) and Coupler Identifier (0x1000-0x100B)
- Prohibit write "0" in register DHCP Timeout (0x114A)

- 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
- WebApp: Fixed address display in Register Description file export
- WebApp: Fixed register address display for coupler parameters
- Power cycle resets connection state when Modbus Connection Timeout is set to “0” and a connection was already established

Version: 02.11.00

Hardware Version: 01.xx.xx

Release Date: November, 2023

Bug Fixes

- Fixed that Modbus messages sometimes get sent with a broadcast MAC address
- Corrected TCP socket release if connection is closed by the Modbus client
- Modbus watchdog reset procedure works as documented

New Supported Modules

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

Version: 02.10.00

Hardware Version: 01.xx.xx

Release Date: August, 2022

New Supported Modules

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

Known Issues

- After a re-established Ethernet link while the Modbus watchdog expired, write access to 0x1120 "Modbus watchdog, predefined time" doesn't reset the watchdog

Version: 02.09.02

Hardware Version: 01.xx.xx

Release Date: March, 2022

Bug Fixes

- Fixed that process data of UR20-xDI-P-TS modules sometimes not getting refreshed

Version: 02.09.01

Hardware Version: 01.xx.xx

Release Date: February, 2022

Bug Fixes

- Edited module parameters “Process data length input” and “Process data length output” of the UR20-4COM-IO-LINK can now be saved persistently and the values are displayed correctly in the web server

Version: 02.09.00

Hardware Version: 01.xx.xx

Release Date: October, 2021

New Supported Modules

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

New Features

- Web application now displays register 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

Bug Fixes

- Fixed that in some scenarios of I/O configuration errors the Status Word Bit 6 remained 'false'
- A "Modbus connection timeout" event while the "Modbus watchdog" was running now will require setting the watchdog reset bit after re-connection
- A Modbus write access to registers 0x1124 – 0x1125 (Change IP address) will now lead to a Modbus response before the coupler closes the connection and takes over the changes
- 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

Known Issues

- After a power cycle, edited module parameters "Process data length input" and "Process data length output" of the UR20-4COM-IO-LINK are set to default values (18/18) regardless of whether edited module parameters have been persistently saved, although the web server continues to display edited values

Version: 02.08.01

Hardware Version: 01.xx.xx

Release Date: December, 2020

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

Bug Fixes

- Issue fixed regarding the import of a configuration file created with old firmware versions

Version: 02.08.00

Hardware Version: 01.xx.xx

Release Date: March, 2020

New Features

- Function Code 43 implemented
- Support of IO-LINK Device Configurator file upload via acyclic services
- New parameter in web application for setting network speed and duplex
- 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

New Supported Modules

- 2566960000 - UR20-4AI-UI-ISO-16-DIAG
- 2566970000 - UR20-2AO-UI-ISO-16-DIAG
- 2617520000 - UR20-4AI-I-HART-16-DIAG

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 Issues

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

Version: 02.07.00

Hardware Version: 01.xx.xx

Release Date: July, 2019

New Features

- 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
- Web server now remains accessible when IP addresses of USB port and Ethernet port are in the same subnet
- and web server access over Ethernet is disabled (however, Weidmüller recommends using separate subnets)

Known Issues

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

Version: 02.06.00

Hardware Version: 01.xx.xx

Release Date: March, 2019

New Supported Modules

- 1315740000 - UR20-4COM-IO-LINK. ATTENTION - requires Module Firmware version 01.02.00 or above

Bug Fixes

- Fixed issue that additional Modbus TCP port cannot be deactivated by setting "additional TCP port" to "0"
- Gateway is no longer mandatory when setting IP address in web server

Version: 02.05.00

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

- Service file and configuration file names now contain coupler type and serial number

Bug Fixes

- Fixed that Function Code 22 (Mask write register) modifies only high byte of the specified register
- Fixed that IE freezes after applying out of range parameter values occasionally

Version: 02.04.00

Hardware Version: 01.xx.xx

Release Date: April, 2018

Information

- Couplers with hardware version \geq 01.05.00 can't get downgraded below firmware version 02.04.00

Version: 02.03.00

Hardware Version: 01.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 new register 0x100E 'Port Link Status' which has two flags to show which port has a link
- Added HTTPS support and new coupler parameter 'HTTPS settings'
- Attention: To use this function please update the coupler with the additional firmware file:
- FB-MOD-FSBL-0008210-01_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: 02.02.01

Hardware Version: 01.xx.xx

Release Date: May, 2017

New Features

- Dual LAN function for Ethernet Ports