

## Firmware change-log of new features and bug fixes of the u-remote field bus coupler: 2566380000 UR20-FBC-PN-IRT-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](http://www.weidmueller.com)

**Version 01.17.00**                      **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 01.16.01**                      **Hardware Version 01.xx.xx**                      **Release date: December, 2024**

#### **Bug Fixes:**

- Fixed IO-Link device parameterization via module parameters for certain PLCs

**Version 01.16.00**                      **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

#### **Information:**

- Devices running firmware versions below 01.12.02 need to be updated at first to firmware version 01.12.02. Afterwards it can be updated to a firmware version higher than 01.12.02.

#### **Bug Fixes:**

- UR20-1COM-CANOPEN: Fixed incorrect profile information in *I&M0* data
- Fixed issue with SNMP when connected to an IPv6 enabled device
- Input process data set to "0" for applications with power feed modules in case the module is powered off
- WebApp: Fixed channel name for last entry after CSV import
- WebApp: Remove limitation of *station name* string length
- WebApp: Fixed display of substitute values for UR20-2PWM-I-2.5A-2DI-P

**Version 01.15.00**                      **Hardware Version 01.xx.xx**                      **Release date: July, 2024**

#### **New features:**

- Option handling via process data
- SNMP can now be disabled via SNMPAdjust
- SNMP community names are changeable via SNMPAdjust
- IO-Link devices can be parameterised via module parameters

#### **Bug Fixes:**

- Network behavior with Multicast packets is improved. Erroneous ARP or ICMP packets won't no longer be sent.
- Fixed Advanced AR Startup when Pull Module Alarm is allowed
- Fixed IOPS/IOCS with Option handling

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

- 3036960000 - UR20-2PWM-PN-0.5A-V2
- 3036950000 - UR20-2PWM-PN-2A-V2

**Version 01.14.00**                      **Hardware Version 01.xx.xx**                      **Release date: November, 2023**

#### **Bug fixes:**

- Multiple minor software improvements for internal procedures

#### New supported modules:

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

**Version 01.13.02**      **Hardware Version 01.xx.xx**      **Release date: March, 2023**

#### Bug fixes:

- Improved diagnostic handling on stations with more than fifteen safety modules

**Version 01.13.01**      **Hardware Version 01.xx.xx**      **Release date: February, 2023**

#### Bug fixes:

- Fixed the problem of unintended restarts of the coupler caused by certain LLDP Ethernet packets.

**Version 01.13.00**      **Hardware Version 01.xx.xx**      **Release date: August, 2022**

#### New supported modules:

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

**Version 01.12.02**      **Hardware Version 01.xx.xx**      **Release date: May, 2022**

#### Bug fixes:

- Fixed that acyclic reading of module parameters via index 125 returns wrong values

**Version 01.12.01**      **Hardware Version 01.xx.xx**      **Release date: December, 2021**

#### Bug fixes:

- Fixed that reading a complete IO-Link object via subindex 0 of very slow devices could cause an error

#### Known issue:

- Acyclic reading of module parameters via index 125 returns wrong values

**Version 01.12.00**      **Hardware Version 01.xx.xx**      **Release date: October, 2021**

#### New features:

- After starting web server's Force Mode, force state of DOs can directly be set to 'off' (previously only 'on' was available)
- Value range for analogue outputs are displayed next to the module parameters in the web server
- New file manager for import and export of multiple files

#### New supported modules:

- 2816740000 - UR20-1COM-232-485-422-V2

#### Bug Fixes:

- In case of a difference between projected hardware configuration and the real IO-station Bit 6 (I/O configuration error) in coupler status word becomes true now
- Fixed that analogue output values could become 0 when maximum value is forced via webserver
- Fixed that on Mitsubishi PLCs an undefined error occurred when using s and UR20-1COM-SAI-PRO modules

#### Caution:

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

**Version 01.11.00**      **Hardware Version 01.xx.xx**      **Release date: February 2021**

#### New features:

- S2 Redundancy
- Support of new version of UR20-2AI-SG-24-DIAG with MX file 001051.110 which is calibrated for an extended range of sensor sensitivity up to 960mV/V (additionally GSDML version 20201029 is required). **CAUTION:** Modules with MX file versions below 001501.110 are calibrated for a maximum sensor sensitivity range of 30mV/V and will return no valid measurement values if used outside this range!

#### New supported modules:

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

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**Version 01.10.03                      Hardware Version 01.xx.xx                      Release date: September 2020**

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**New feature:**

- Option handling is supported without power cycle of the UR20-1COM-SAI-PRO module (Firmware Version >= 01.02.00)

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**Version 01.10.02                      Hardware Version 01.xx.xx                      Release date: June 2020**

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**New feature:**

- Packing of process data for 4-Bit modules for Siemens S7-400 PLCs

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**Version 01.10.01                      Hardware Version 01.xx.xx                      Release date: February 2020**

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**Bug Fixes:**

- Fixed that process data can be missing for some modules when option handling is used.

**New supported modules:**

- 2566960000 - UR20-4AI-UI-ISO-16-DIAG
- 2566970000 - UR20-2AO-UI-ISO-16-DIAG
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**Version 01.10.00                      Hardware Version 01.xx.xx                      Release date: February 2020**

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**New features:**

- IO-Link configuration file upload is possible via acyclic service functions of the PLC
- Packing of process data for 4-Bit modules

**Bug Fixes:**

- Fixed that coupler can lose its bus connection to 1200/1500 PLC when user access the online view in TIA Portal
- 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 01.10.01 until browser cache gets cleared

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**Version 01.09.02                      Hardware Version 01.xx.xx                      Release date: October 2019**

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**Bug Fixes:**

- Fixed that simultaneous acyclical requests could cause a restart of the coupler

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**Version 01.09.01                      Hardware Version 01.xx.xx                      Release date: September 2019**

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**Bug Fixes:**

- Fixed that coupler occasionally resets during acyclic IO-LINK communication while Option Handling is activated.

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**Version 01.09.00                      Hardware Version 01.xx.xx                      Release date: July 2019**

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**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

**Bug Fixes:**

- Fixed that IE11 sometimes doesn't update web server after factory reset
- Fixed that IRT mode between UR20-FBC-PN-IRT coupler and UR20-FBC-PN-IRT-V2 coupler did not work
- Fixed that in very rare cases data communication packages were lost

**Known issue:**

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

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**Version 01.08.00                      Hardware Version 01.xx.xx                      Release date: April 2019**

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- First released version

**Known issues:**

- Currently the only supported IRT (RT\_Class\_3) start up behaviour is “advanced” mode. It is planned to add “legacy” mode compatibility with a future firmware update. It is not possible to mix UR20-FBC-PN-IRT-V2 in IRT networks with “legacy” mode such as UR20-FBC-PN-IRT (1334880000)
- RT networks have no such limitations. To check if your system accepts the “advanced” start up mode for IRT, install the current GSDML file (GSDML-V2.33-WI-UR20-20190312.xml).