

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.

Version: 01.20.00	Hardware Version: 01.xx.xx	Release Date: March, 2026
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Information

- Requires u-mation configurator >= 2.0.0

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
- Additional device description for old PLCs that do not support extended diagnostics

Bug Fixes

- Fixed response for IOL_CALL FI index 65016...65019 and index 65100
- Fixed coupler status bit IB0.7 "Event queue not empty"
- WebApp: Fixed missing message for coupler restart after firmware multi-update

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: 01.18.00	Hardware Version: 01.xx.xx	Release Date: July, 2025
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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: 01.17.00	Hardware Version: 01.xx.xx	Release Date: February, 2025
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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
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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
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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
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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
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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
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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
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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
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New Supported Modules

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

Version: 01.12.02	Hardware Version: 01.xx.xx	Release Date: May, 2022
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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
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Bug Fixes

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

Known Issues

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

Version: 01.12.00	Hardware Version: 01.xx.xx	Release Date: October, 2021
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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
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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

Version: 01.10.03	Hardware Version: 01.xx.xx	Release Date: September, 2020
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New Features

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

Version: 01.10.02	Hardware Version: 01.xx.xx	Release Date: June, 2020
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New Features

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

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

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 Issues

- Web server sometimes freezes after downgrade from firmware 01.10.01 until browser cache gets cleared

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

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.

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 Issues

- "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: 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).