

## Changelog Firmware 3.8.0.0 for TBEN-S2-2RFID-4DXP:

- Support firmware updates for HF read/write heads in web configuration
- Support for firmware updates for UHF read/write heads in the web configuration
- Support of AFI commands for HF
- Support of DSFID commands for HF
- New command Delete Buffer (Cont. Mode)
- HF: Idle mode - read tag again after writing and changing back to Idle
- Webserver: User can display read/write data as hexadecimal or decimal value
- Webserver: Event-log entry "Web administrator logged out" added
- Webserver: login-procedure improved
- Webserver: online-help improved
- Webserver: Enabled caching
- Extend the response data of command Read/write head identification by one byte
- Commands "Set HF read/write head address" and "Query HF read/write head address" can be executed even if no read/write head address is enabled
- Command Get UHF read/write head status/error returns fixed length
- Improved connection reliability
- PROFINET MRP: connection handling improved
- DCP request handling improved
- Report I/O-ASSISTANT Force Mode active in event log
- Prevent duplicate event log entries in the web configuration

- Prevent unassigned event log entries in the web configuration
- Hardened HTTP protocol againsts invalid ethernet frames
- Fixed issue with 8K tag in idle mode
- Web-configuration: Support Multitag parameter in HF-mode
- Customer gets a diagnosis if HF continuous mode parameter do not fit to tag type
- Fixed an error code
- Fixed issue with Command Tag Info and Idle Mode settings with user memory
- Fixed swapped error codes in Profinet and EtherCAT

### **Changelog Firmware 3.7.2.0 for TBEN-S2-2RFID-4DXP:**

- Fixed HF Status bits / Counter updated in Webserver 2.0
- Disabled logging of RFID commands

### **Changelog Firmware 3.7.1.0 for TBEN-S2-2RFID-4DXP:**

- Support of older Turck UHF readers in the Webconfiguration for UHF read/write heads and in the UHF RFID Test Tool

## Changelog Firmware 3.7.0.0 for TBEN-S2-2RFID-4DXP:

- New Turck webserver (dynamic page refresh, improved user experience for RFID U-interface, more diagnostics etc..)
- Web based configuration of UHF parameters added
- Web based UHF tools added:
  - o RFID-Test: Simple tool for reading tags without installation of any software
  - o UHF-Diag: Tools for identifying interference frequencies in all used channels
- Added command codes with fast command processing to Webserver
- The Webserver supports to change and show the method, how the IP address is assigned
- Password support of SLIX2 (HF read/write heads from firmware version Vx.98)
- New command 0x0007 to change EPC length and write new EPC (UHF)
- Support grouping of User data in HF Continuous Mode
- Continuous reading for Continuous Modus HF with start address = 3
- Support of tag present in HF continuous modes with start address = 2 or 3 and in the Continuous HF bus mode
- Added the read/write head address to data in idle mode of the HF bus mode
- Allow reading specific bytes of UID in Continuous Mode
- Easy access to extra diagnostics for RFID
- Improved diagnostics
- Fixed issues with HF idle mode and reading 8 byte user data

- Fixed issue with multi tag mode
- Fixed issues with tag counter (increments twice after reading data from tag)
- Fixed minor issues with reset command, if a command is busy
- Fixed connection problems with HIMA PLCs
- Fix wrong display of Modbus/TCP timeout value in Webserver
- Fixed a problem within the response of the PROFINET read record
- The so called HW-ID (hardware revision) is readable via PROFINET, SNMP, MODBUS/TCP
- Fixed issues with more than 120 bytes of retain variables in ARGEE

### **Changelog Firmware 3.6.2.0 for TBEN-S2-2RFID-4DXP:**

- Fixed: Ethernet/IP stack should not set timeout of TCP session to 0 when IO connection is opened on that TCP session
- Fixed: ARPs should update remote\_addr structure inside each UDP/TCP session in Ethernet/IP

### **Changelog Firmware 3.6.1.0 for TBEN-S2-2RFID-4DXP:**

- Support of Continuous Mode in HF Bus-Modus
- Adds support of PROFINET System Redundancy S2
- HF Idle mode can be deactivated
- Allowing use of Debus Trigger command with RFID-U Direct command

- Re-activate the possibility to set the IP address to the same value as the default gateway IP address. This is a mandatory change for PROFINET conformance V2.3x.
- Provide the possibility to delete the PROFINET station name through the webservice
- Added EIP attribute to read out major/minor revision of firmware
- Fixed: An active 'Parameterization error' is not mapped to the inputs of the diagnosis module
- Fixed: Correct behavior on irregular alarm sequence numbering from PLCs
- Fixed: ACCESS commands in UHF single tag use-cases
- Fixed: Allowing forcing in fail safe mode
- Fixed: SNMP attribute 'no access' is handled correctly
- Fixed: Write command stays in busy in UHF applications
- Fixed: HF bus mode and no write-read head activated now results in a parameterization error
- Fixed: Read data in IDLE is not valid in UHF mode in all cases.
- Fixed: A bit marking the PROFINET conformance capability and netload class capability is now set in order to reflect latest changes in the 'GW features object'

## **Changelog Firmware 3.6.0.0 for TBEN-S2-2RFID-4DXP:**

- Added options for data in Idle
- Added time measurement of commands and tag present for commissioning
- ARGEE V3 (Enhanced feature set)
- Change names of RFID commands
- Added reboot message to the event log at the startup
- Fixed: Reply with correct response code during network discovery
- Fixed DLR NeighborCheck behavior
- Enable ACD when switching from Temporary to Assigned IP
- ARGEE GOM Access checks compares requester IP address against the Authenticated IP address
- [PROFINET / FSU] A sequence DCP\_Hello messages shall no longer be stopped or prevented at all by dcp identify requests or similar
- Fixed shifting of module status word in Modbus registers for inputs
- Fixed issues with parameter 'Heart beat read/write head'
- Improved handling of Input Only connections in Ethernet/IP
- PN: Fix potential problem with invalid or non updated IOPS states for zero input length modules
- Improved ACD behavior on transition from DHCP to Static IP in PGM-DHCP mode

## **Changelog Firmware 3.5.1.0 for TBEN-S2-2RFID-4DXP:**

- Replaced Turck logo in browser tab.
- The parameters 'Modbus watchdog' and 'Modbus connection timeout' are displayed correctly in the webserver view even if no IP address is assigned to the device.
- Changed names for RFID commands.
- 'Data (Bytes) available' is decreased after first data is written to tag (not to R/W head).
- Resolved issue with 'continuous mode' and 'size of UID/EPC'.
- Fixed problems with access to UHF tags without addressing via EPC.
- Errors are displayed as text in the event log.
- Fixed issue with EIP and factory reset.
- The PLC failsafe mode is stopped after disconnect, if user sets any output data via webserver.

## **Changelog Firmware 3.5.0.0 for TBEN-S2-2RFID-4DXP:**

- Support of new HF tag types
- All HF tag types supported by automatic detection
- Disconnected read/write heads are detected during command execution
- Continuous Mode in HF multitag mode results in error message
- Message for time stamp of UHF protocol is disabled
- Fixed bug in DHCP implementation to allow additional renewal attempts and transmit over unicast
- Fixed input bits: TNCx, TReX, PNSx, XDx
- Checked wrong addressing of HF read/write heads for Bus-Mode
- Heart beat function supported for UHF read/write heads
- Improved DHCP handling
- Fixed problems after configuration via PactWare
- Fixed problems with Command '0x0010 Continuous Mode'

## **Changelog Firmware 3.3.5.0 for TBEN-S2-2RFID-4DXP:**

- Support FLC/ARGEE V2
- Added automatic read/write-head addressing in HF bus mode
- New webserver layout
- Added locking of multiple blocks in one command
- All events are listed in detail
- New Status bit 'HF read/write head switched on' in RFID module.
- New Status bit 'Continuous (Presence Sensing) Mode active'.
- Display RFID error codes as text.
- Added logging of command requests and Responses in the event log
- Added new command 0x0042 to request error and status of the UHF read/write head
- Fixed problems with lost connections in HF bus mode with multiple tag presents
- Ethernet/IP: Support reduced sized (i.e. < 12 Byte) configuration assembly
- Fixed missing Profinet diagnosis messages
- Fixed data of RFID diagnosis slot
- Fixed DXP diagnosis issues
- Fixed direct command with HF readers
- Changed text back to 'Output overcurrent'
- Text 'Start address for read access' changed to 'Start address'
- Fixed in EIP component version V2.7.22.0
- Fixed bug in heart beat feature
- Fixed bug in fragmentation

- Added some missing or new error codes for RFID
- Fixed problems with Direct read/write head commands with 'Length' > 1 with UHF Readers.
- Re-enable ACD when rotary switches are changed to fixed IP mode
- Attribute to read out firmware revision of device via EIP stack (VSC class 126, inst 1, attrib 112)
- Fixed issues with reading/writing more than 64 bytes user memory in UHF
- Fixed the output of the serial number of UHF R/W-heads in the command 0x0041
- SNMP bug fix to support PNO netload test

## Changelog Firmware 3.2.2.0 for TBEN-S2-2RFID-4DXP:

- Added new command: 0x0070 Get HF read/write head address (bus mode)
- Added new command: 0x0071 Set HF read/write head address (bus mode)
- Added new command: 0x0012 Stop Continuous (Presence Sensing) Mode to stop Continuous und Continuous Present Sensing Modus without reset of data
- 0x0050 'Tag info' can be used outside mode 'automatic tag detection HF (1 to 4)'
- Fixed issue with measured value >64 Bytes in PactWare
- Continuous (Presence Sensing) Mode is disabled after timeout
- Fixed problems after change of operation mode
- Changed text back to 'Output overcurrent'
- Text 'Start address for read access' changed to 'Start address'
- TagPresent (TP) is cleared if R/W head is disabled
- Read/write head address is ignored outside bus mode
- Minor changes in text strings
- Fixed missing PROFINET diagnosis messages
- Fixed data of RFID diagnosis slot
- Fixed DXP diagnosis issues
- Fixed Direct Command with HF readers
- Ignore Length of UID/EPC if no tag is needed for the command