



Use **IO-Link Firmware Update profile** Universal · Smart · Easy

Overview

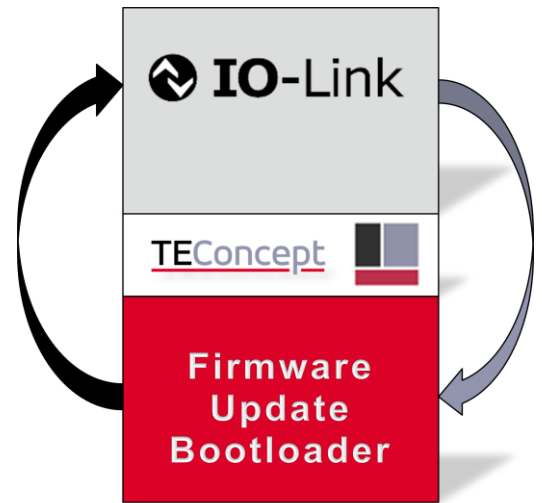
In 2016 the IO-Link community has published a new profile that supports firmware updates via the IO-Link interface. The profile is fully compliant to the IO-Link V1.1.3 specification. Thus, every standard IO-Link Master can be used to update the firmware of an IO-Link device, if the master is controlled by an appropriate software tools that can read and process the specified Firmware update files. The firmware update files can be designed by a software tool that is provided by the IO-Link community.

The bootloader transfers an encrypted binary image to the Device. It receives and checks the image date. Post-processing (decompression, decryption etc.) and the storage of the image data is device specific. The bootloader provides an appropriate extension interface.

Features

- Complies to Firmware-Update profile V1.1
- Can be added to an existing IO-Link Device
- Tolerant to power failures and transmission errors during the update process
- Footprint: RAM: ~1kB
Flash: ~12kB Stack
- Comes with control tool that handles firmware update tool
- Currently available ported to the following platforms.

Processor	PHY
STM32F1xx	LT3669
STM32L0xx	SN65HVD102 TIOL111
MSP430	L6362A
STM32L471	MAX14821 MAX14827 MAX22513
RL78	HMT 7748
...	CCE4502



Description

The bootloader can be added as standalone software to the IO-Link device firmware.

In this case the complete technology application including the IO-Link stack can be updated. The bootloader application that handles the received binary file can be adjusted by the user.

Delivery

- Buyout license for Firmware update bootloader
- Documentation with installation manual
- Compiler & linker example setups
- IO-Link control tool with IODD interpreter that handles IO-Link bootloader files.
- TEConcept IO-Link packager to generate FW-Update files (*.iolfw)

Optional

- Demo Device with bootloader
- Software/Hardware design support
- Conformance tests