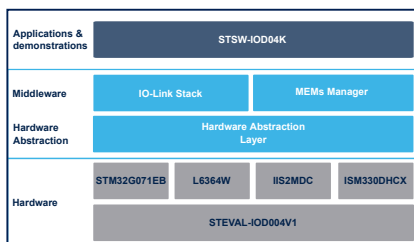


Software pack for STEVAL-IOD04KT1 with IO-Link stack v1.1, IODD, and control software for industrial sensors



Features

- Firmware package to build IO-Link device applications based on the [STM32G071EB](#) microcontroller
- Middleware libraries featuring IO-Link device demo-stack for [L6364W](#) to manage [IIS2MDC](#) and [ISM330DHCX](#) MEMS sensors
- Ready-to-use binary for IO-Link device sensor data transmission
- Easy portability across different MCU families, thanks to [STM32Cube](#)
- Free, user-friendly license terms

Description

[STSW-IOD04K](#) is a software package, which lets you enable IO-Link communication between [STEVAL-IOD004V1](#) (included in the [STEVAL-IOD04KT1](#) but not available for separate sale) and an IO-Link master, through the [L6364W](#) transceiver.

Based on the [STM32CubeHAL](#), the [STSW-IOD04K](#) extends [STM32Cube](#). It provides a board support package (BSP) for IO-Link communication based on a demo-stack library that manages data coming from the internal [L6364W](#) temperature sensor and the two on-board MEMS industrial sensors: [IIS2MDC](#) (high accuracy, ultra-low-power, 3-axis digital output magnetometer) and [ISM330DHCX](#) (always-on 3D accelerometer and 3D gyroscope).

The architecture of this application software facilitates the integration with other [STM32Cube](#)-based software to create examples for the most common application technologies. Included libraries enable functions for a real and usable system for developers.

Hardware drivers and abstract low-level details allow the middleware components and applications to access data in a hardware-independent manner.

The middleware libraries include an ST proprietary IO-Link demo-stack.

You can use the [STSW-IOD04K](#) software package in different integrated development environments (IDEs): IAR, Keil, and [STM32CubeIDE](#). It also includes the IODD file to be uploaded onto the user's IO-Link master.

Product summary	
Software pack for STEVAL-IOD04KT1 with IO-Link stack v1.1, IODD, and control software for industrial sensors	STSW-IOD04K
Industrial smart sensor kit based on L6364W dual IO-Link device transceiver	STEVAL-IOD04KT1
Dual channel IO-Link device transceiver in CSP package	L6364W
Applications	Factory automation Industrial sensors

Revision history

Table 1. Document revision history

Date	Revision	Changes
27-Oct-2021	1	Initial release.

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