

Graphical user interface for the STEVAL-IOM001V1 and STEVAL-IOD003V1 IO-Link evaluation boards



Product summary	
Graphical user interface for the STEVAL-IOM001V1 and STEVAL-IOD003V1 IO-Link evaluation boards	STSW-IOLINKGUI
IO-Link device evaluation board based on L6362A with Arduino connectors for STM32 Nucleo	STEVAL-IOD003V1
IO-Link master evaluation board based on L6360 equipped with ST morpho connectors for STM32 Nucleo	STEVAL-IOM001V1
L6360 IO-Link communication transceiver master IC evaluation software based on STM32Cube	STSW-IOM001
L6362A IO-Link communication transceiver device IC evaluation software based on STM32Cube	STSW-IOD003
Applications	IO-Link Gateway Smart Sensor Nodes

Features

- Automatic firmware version identification
- For the **STEVAL-IOM001V1**:
 - Control of the evaluation board through the **NUCLEO-F446RE** board
 - **L6360** address selection
 - I²C control for internal register configuration and monitoring
 - Dedicated control of L6360 RESET, ENL+, ENC/Q and SEL pins
 - Fault detection via IRQ pin monitoring
 - UART control (INC/Q, OUTC/Q) with speed selection (COM1, COM2, COM3)
 - LED1 and LED2 control
- For the **STEVAL-IOD003V1**:
 - Control of the evaluation board through the **NUCLEO-L073RZ** board
 - Dedicated control of **L6362A** EN/DIAG and SEL pins
 - UART control (IN2, OUTI/Q) with speed selection (COM1, COM2, COM3)
 - Fault detection via OL and EN/DIAG pin monitoring

Description

The **STSW-IOLINKGUI** is designed to facilitate the control of the **STEVAL-IOM001V1** and **STEVAL-IOD003V1** evaluation boards based, respectively, on the **L6360** and **L6362A** IO-Link transceivers.

The GUI works in combination with the GUIFW_IOM01M1 binary file included in the **STSW-IOM001** software package, running on the **NUCLEO-F446RE** development board, and with the GUIFW_IOD01A1 binary file included in the **STSW-IOD003** software package, running on the **NUCLEO-L073RZ** development board.

The **STSW-IOLINKGUI** automatically detects the firmware version running on the **STM32 Nucleo** board connected to your laptop/PC via a USB cable.

For the featured evaluation boards, it allows you to monitor and program the internal registers, the UART interface, the digital signals and the interrupt status of the related IO-Link transceiver.

The GUI is available free of charge on www.st.com.

Revision history

Table 1. Document revision history

Date	Version	Changes
27-Jun-2018	1	Initial release.
27-May-2020	2	Updated cover page product summary table and description.

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