





TMGTE

IO-LINK DEVICE ENGINEERING
& TEST TOOLS



 **IO-Link**

TMG USB IO-Link Master V2 SE

Standard Edition

- incl. TMG IO-Link Device Tool V6 - SE

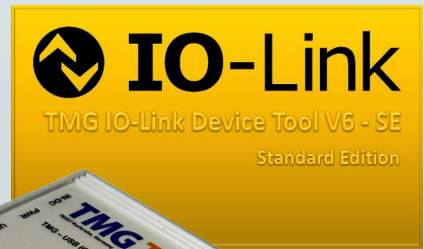
The TMG USB Master V2 SE is done for all use cases where a fieldbus IO-Link master is too complicated and needs too much additional staff.

This version is foreseen for demonstration or pre-parameterization.

Protocol implementation and tooling is according to the newest IO-Link specification.

The software used for fieldbus masters and IO-Link master modules of remote IO systems has the same basis. By using the tool with its IODD interpreter for certification testing it is the best known tool for IO-Link.

Gladly we offer brand label agreements for the USB IO-Link master V2 including software.



- Intended for service and sales
- Parameterization, observation and diagnosis of IO-Link devices
- IODD interpreter for IODD V1.0.1 up to the latest IO-Link Package
- Free published interface for graphical user interfaces for IO-Link Devices
- Support of IODDFinder, Firmware Update and BLOB Transfer
- IO-Link Safety Extension available
- Can be used without external power supply (USB -> 24V / 80mA)
- External power supply with international adapters if more current is needed

TMG USB IO-Link Master V2 - DLL

Library for using the TMG USB IO-Link Master V2 SE with own software on Windows PCs.

The most important applications are:

- End-of-line testing, configuration and calibration in the production
- System testing
- Applications in laboratory operations where PLCs are not often used

Technical Data

- Can be used with C, C# and Visual Basic (.NET)
- Compatible to TMG USB IO-Link Master V2 SE and TS
- Windows 10 and 11 (32Bit and 64Bit applications)
- Note: The device should not be used for general automation tasks, as the USB interface is not suitable for this.

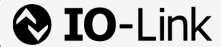
TMG USB IO-Link Master V2 - IOLS - DLL

Library with IO-Link Safety Extension for using the TMG USB IO-Link Master V2 SE for system test and end-of-line testing, configuration and calibration in the production.

- Technical data like standard DLL
- Workstation license with security functions to prevent misuse for functional safety applications

Important: The software and the TMG USB IO-Link Master V2 SE/TS are fully compliant to the IO-Link Safety communication but not compliant with IEC 61508. It is not allowed to use the software and the device in functional safety applications!

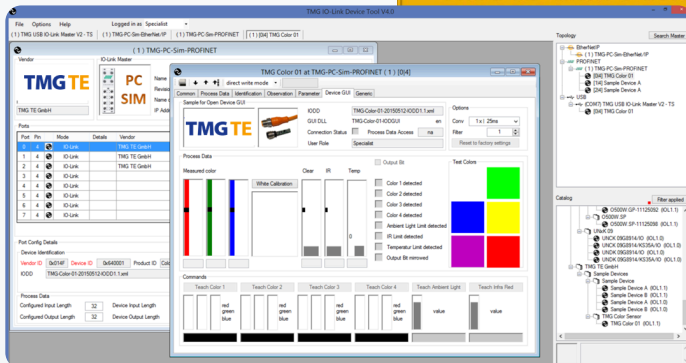
TMG IO-Link Device Tool V6



- IO-Link Engineering Tool
- Configuration of IO-Link Masters across manufacturers
- Parameterization of IO-Link Devices via IODD V1.0.1 up to the latest IO-Link Package
- Open IO Device GUI (graphical user interface)
- IO-Link Safety supported
- Stand alone PC Tool or integrated in TIA Portal from Siemens



TMG IO-Link Device Tool V6



- Customizing available
- Special features of masters and devices can be added by master and device GUIs which can be imported into the tool
- The Open IO Device GUI is open and published by TMG
- For Master Integration we offer our cooperation
- License Models:
 - Single license (PC based or on dongle)
 - Flat rates available for OEM versions



IO-Link Device Tool V6 - PE - Professional Edition

- For IO-Link masters of several manufacturers and for all IO-Link devices.
- Today we support more than 100 different Masters from about 20 manufacturers
- The cross-manufacturer, cross-device and cross-fieldbus version follows the requirements of large IO-Link users.

Master manufacturer and fieldbus crossing operation

- Executable as independently Windows application
- Integration into PLC engineering tools like TIA Portal
- Operation of IO-Link master without PLC possible
- Master Plug-In for customizing
- Data Storage content transfer and storage
- Multiple Communication interfaces available



Open to IO-Link masters from many manufacturers

- IO-Link interpreter for IO-Link V1.0.1 up to the latest IO-Link Package
- All IO-Link devices world-wide without restriction
- Open IO Device GUI (Extension for graphical user interface)
- IO-Link Viewer
- IO-Link Device Firmware Update Support
- IO-Link Safety (parameterization and commissioning)
- IO-Link Finder Support

TMG IO-Link Device Tool V6- TS

- Test System

incl. TMG USB IO-Link Master V2 TS

This version is foreseen for conformance testing and prescribed from the IO-Link Community for manufacturer declaration.



Device Test System

- Additional features to the Standard Edition:
 - Execution of test cases for all IO-Link Devices up to the latest IO-Link Package
 - Creates test report for manufacturer declaration
 - Trace of IO-Link communication
 - Common Profile Test
 - **Protocol Timing Test (as part of the physical layer test)**
 - Test configuration from IODD
 - Easy to use, also for system integrators
- Option packages available:
 - IO-Link Safety Device Test System
 - FW-Update Profile



The Test System is based on the IO-Link Engineering Tool for masters and devices, which is the most widespread. It includes the full blown IODD interpreter and an interface for graphical user interfaces for IO-Link Devices.

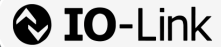
TMG USB IO-Link Master V2 - EMC Test Master

- This version is foreseen for testing the IO-Link specific EMC robustness tests.
- The test runs independent from a PC
- Powered from 5V USB + 24V external Power Supply
- Test configuration by Application Specific Tag

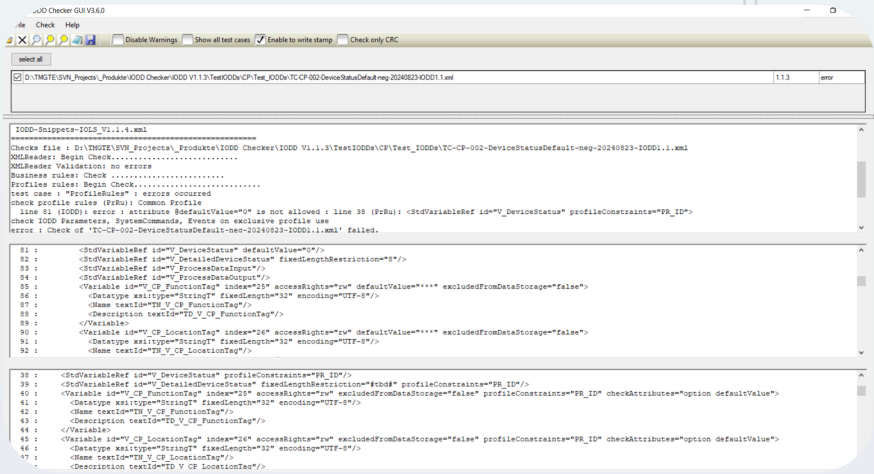


Edition	TMG IO-Link Device Tool			TMG USB IO-Link Master V2 - EMC
	Standard	Professional	Test-System	
Software included				
TMG IO-Link Device Tool V6 - SE	●	-	-	●
IO-Link Device Tool V6 - PE	-	●	-	-
TMG IO-Link Device Tool V6 - TS	-	-	●	-
Unique Software functionality				
Support of IO-Link Masters from different manufacturers	-	●	-	-
Test Engine to perform the IO-Link Protocol Test	-	-	●	-
IO-Link specific EMC Test Firmware	-	-	-	●
Basic Software functionality				
According to the latest IO-Link and IODD specification	●	●	●	●
IODD standard V1.0.1, V1.1 fully supported	●	●	●	●
TMG IO-Link Master Support	●	●	●	●
IODD Viewer	●	●	●	●
IODD Finder	●	●	●	●
IODD Interpreter	●	●	●	●
IO-Link Device Firmware Update	●	●	●	●
BLOB Transfer	●	●	●	●
Process data Scope	●	●	●	●
Generic Dialog	●	●	●	●
Scope function	●	●	●	●
Online and offline project engineering	●	●	●	●
Open IO Device GUI	●	●	●	●
Hardware included				
TMG USB IO-Link Master V2 - SE	●	-	-	-
TMG USB IO-Link Master V2 - TS	-	-	●	-
TMG USB IO-Link Master V2 - EMC	-	-	-	●

TMG IODD Checker GUI



The TMG IODD Checker GUI is a Windows interface for the IODD checkers of the IO-Link community.



- Contains all valid IODD Checkers
- Automatically selects the correct IODD Checker
- If you double-click on the error line, the Checker GUI automatically opens the IODD and, from IODD-V1.1.3-Checker-V1.1.12 on, also the corresponding IODD snippets at the specified line
- The IODD window is not an XML editor but easy changes like deleting superfluous texts can be made here
- The Light Edition is available for free for our customers
- The Development Edition which supports additional test and code generation (like Profile IODDs) is in preparation and will have work station licenses

TMGTE

TMG TECHNOLOGIE MANAGEMENT GRUPPE
Technologie und Engineering GmbH (TMG TE)
Zur Gießerei 10
76227 Karlsruhe
Germany



+49 721-82806 0



info@tmgte.de



sales@tmgte.de



www.tmgte.com

