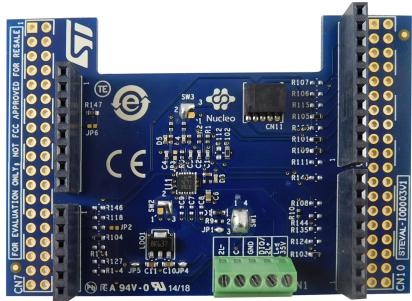


IO-Link (PHY) device evaluation board based on L6362A with Arduino connectors for STM32 Nucleo



Features

- [L6362A](#) IO-Link device transceiver main characteristics:
 - IO-Link PHY layer
 - Dedicated overload diagnostics pin
 - UART interface
 - Selectable 12 mA 3.3 V or 10 mA 5.0 V linear regulator
 - Overload and overheating protections with non-dissipative cut-off function
 - Full reverse polarity on IO-Link interface pins
 - EMC protections (as per IO-Link v1.1)
 - Surge protection (as per IEC 60947-5-2)
 - DFN-12L (3x3x0.9 mm) package
- 6.5 to 35 V operating voltage range
- On-board 100 mA 12 V linear regulator ([L78L](#))
- LEDs for status and diagnostics
- Ground and V_{CC} wire break protections
- Compatible with STM32 Nucleo boards
- Equipped with Arduino UNO R3 connectors
- RoHS and China RoHS compliant

Description

Product summary	
IO-Link device evaluation board based on L6362A with Arduino connectors for STM32 Nucleo	STEVAL-IOD003V1
IO-Link communication transceiver device IC	L6362A
L6362A IO-Link communication transceiver device IC evaluation software based on STM32Cube	STSW-IOD003

The [STEVAL-IOD003V1](#) evaluation board is based on the [L6362A](#) IO-Link PHY device with full integrated EMC protection (according to IO-Link v1.1 specification) and surge protection (according to IEC 60947-5-2). It provides an affordable and easy-to-use solution for the development of IO-Link and SIO applications, letting you easily evaluate the communication features and robustness of the L6362A.

The on-board linear regulators (12 mA-3.3 V from L6362A and 100 mA-12 V from [L78L12ABUTR](#)) can be used to supply the microcontroller via the 24 V bus, instead of via USB.

When the L78L12ABUTR is enabled (default configuration), you can also perform evaluation of complete industrial sensor modules by connecting the STEVAL-IOD003V1 to a [NUCLEO-L073RZ](#) (or [NUCLEO-L053R8](#)) board and an [X-NUCLEO-IKS01A2](#) expansion board.

The STEVAL-IOD003V1 interfaces with the STM32 controller via UART and GPIO pins and is compatible with the Arduino UNO R3 (default configuration) and ST morpho (optional, not mounted) connectors.

1 STEVAL-IOD003V1 schematic diagrams

Figure 1. STEVAL-IOD003V1 circuit schematic (1 of 4)

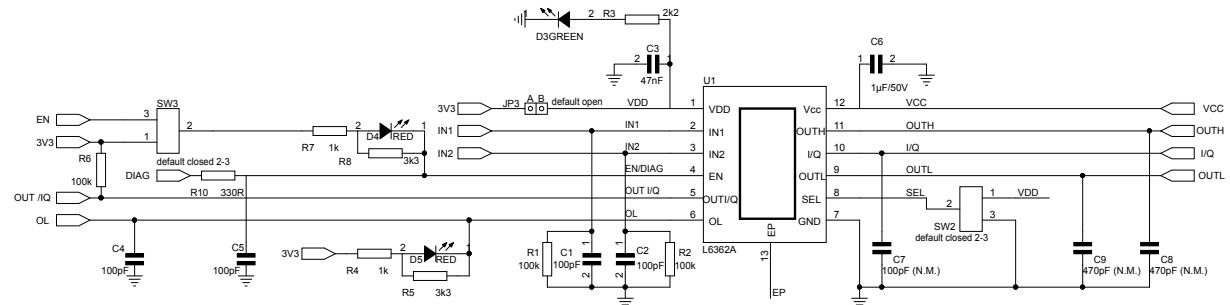


Figure 2. STEVAL-IOD003V1 circuit schematic (2 of 4): Arduino connectors

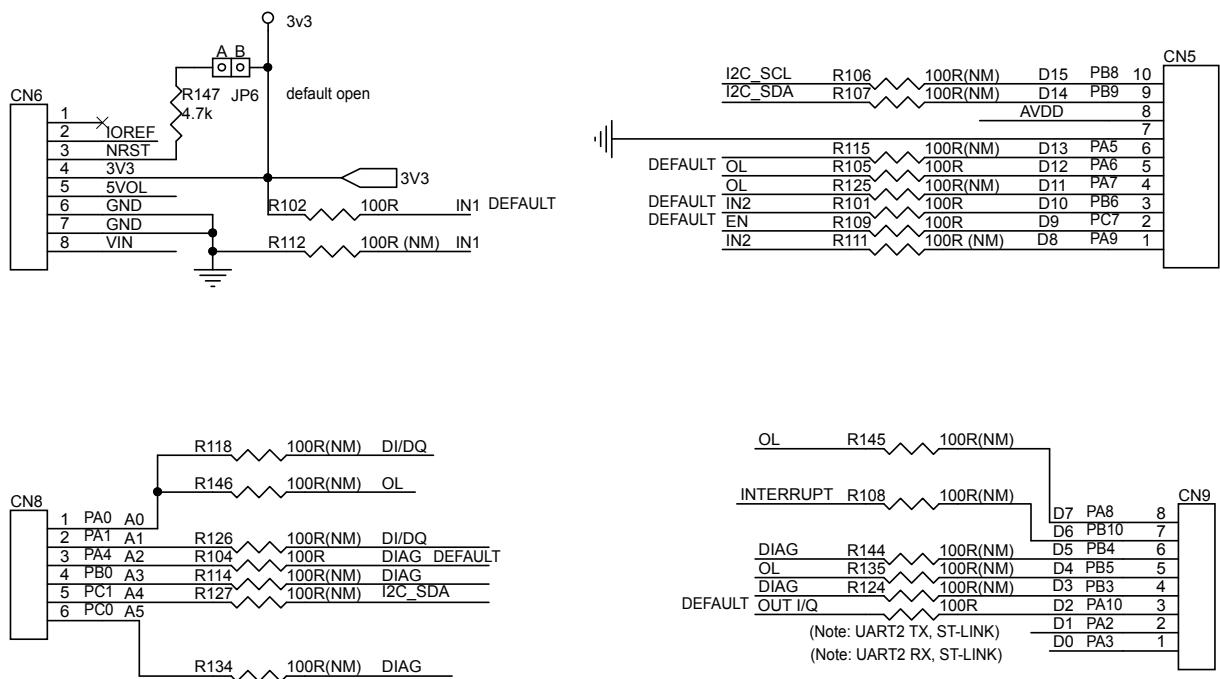


Figure 3. STEVAL-IOD003V1 circuit schematic (3 of 4): ST morpho connectors

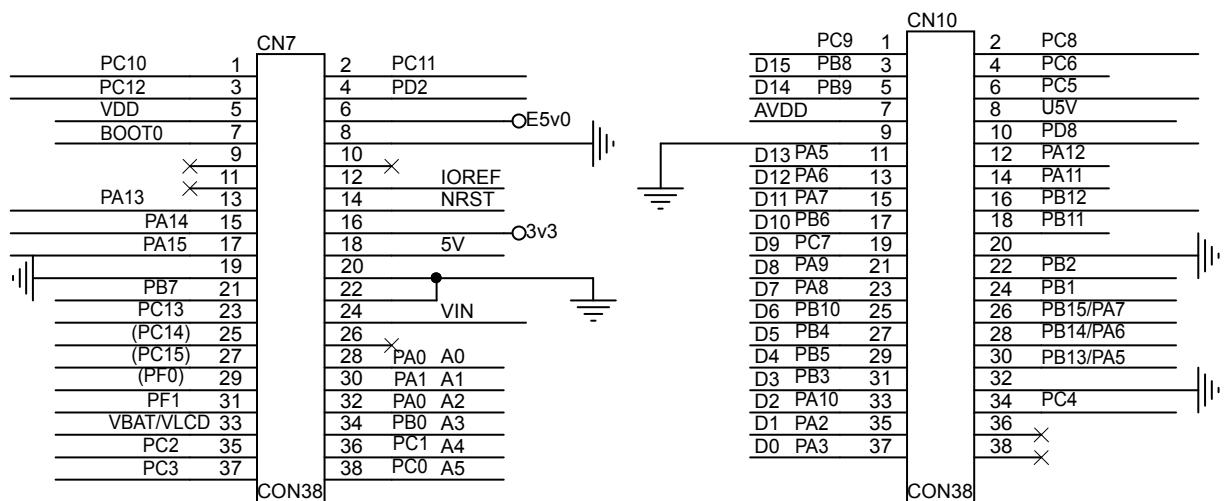
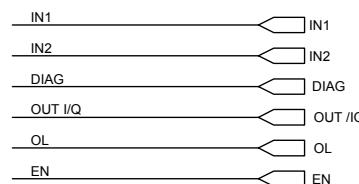
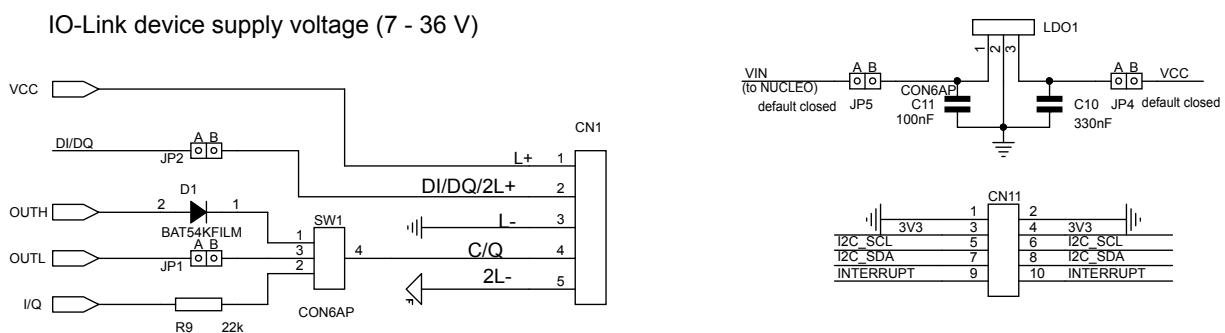


Figure 4. STEVAL-IOD003V1 circuit schematic (4 of 4): supply voltage



Revision history

Table 1. Document revision history

Date	Version	Changes
04-Jun-2018	1	Initial release.

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