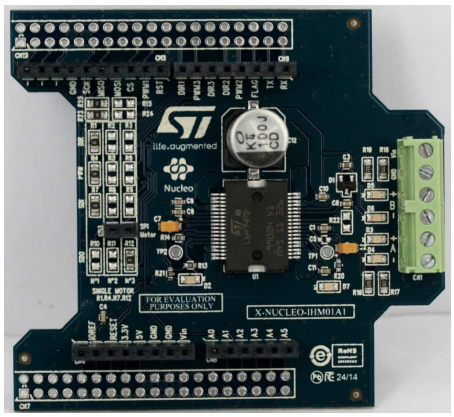
X-NUCLEO-IHM01A1

Stepper motor driver expansion board based on L6474 for STM32 Nucleo

Data brief



Features

- Voltage range from 8 V to 45 V
- Phase current up to 3 $A_{r.m.s.}$
- Power OK and fault LEDs
- Advanced current control
- Fully protected power stage
- Up to 1/16 microstepping resolution
- Compatible with Arduino UNO R3 connector
- Compatible with STM32 Nucleo boards
- Suitable for multi-motor solutions
- RoHS compliant

Description

The X-NUCLEO-IHM01A1 is a stepper motor driver expansion board based on the L6474.

It provides an affordable and easy-to-use solution for driving a stepper motor in your STM32 Nucleo project.

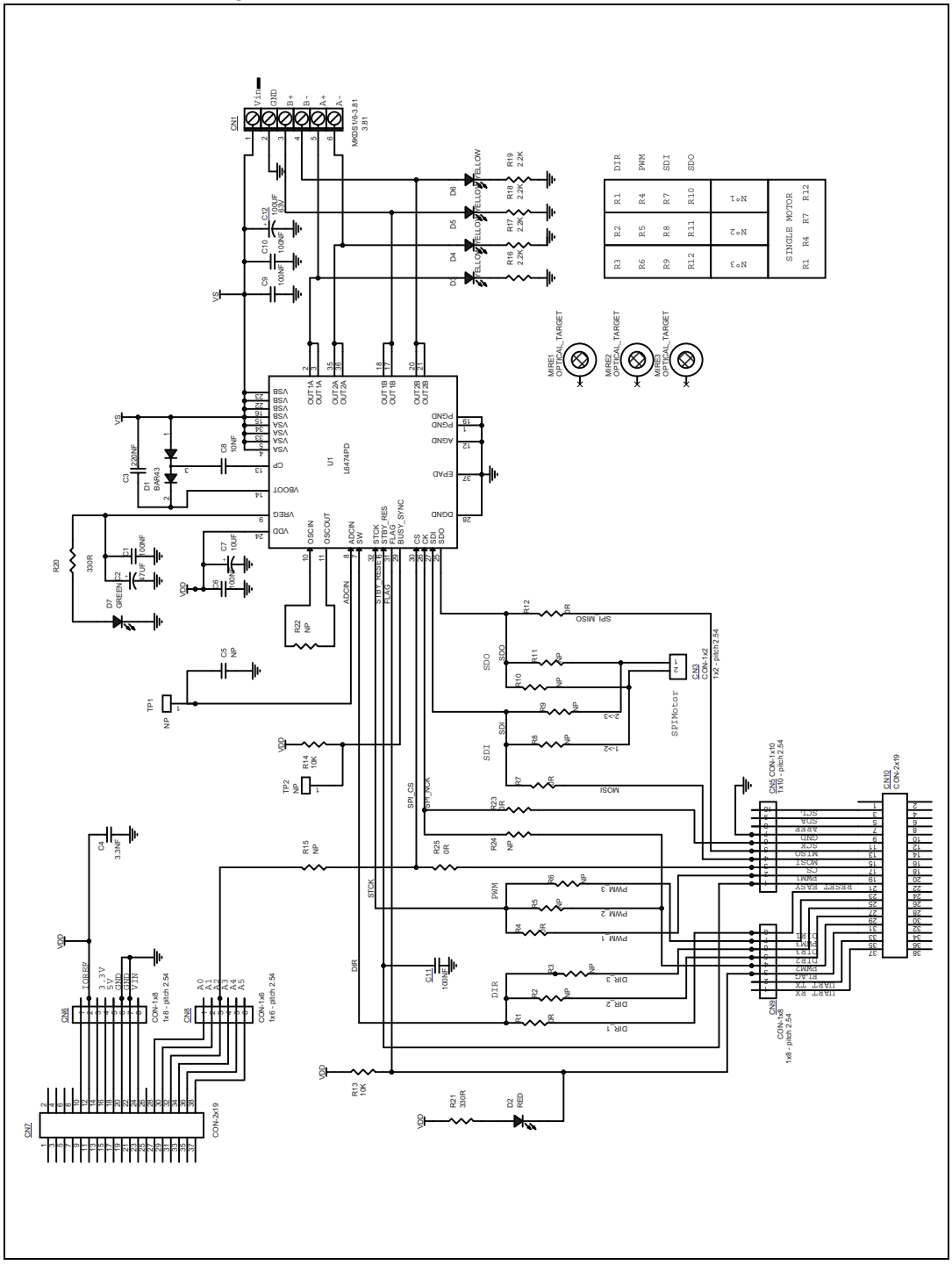
The advanced current control of the L6474 and a complete set of protection features offer high levels of both performance and robustness.

The X-NUCLEO-IHM01A1 is compatible with the Arduino UNO R3 connector, and supports the addition of other boards which can be stacked to drive up to three stepper motors with a single STM32 Nucleo board.

For further information contact your local STMicroelectronics sales office. www.st.com

1 Schematic diagram

Figure 1. X-NUCLEO-IHM01A1 circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
18-Jun-2014	1	Initial release.
10-Sep-2014	2	Updated board photo in cover page.
30-Mar-2015	3	Updated title in cover page.

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