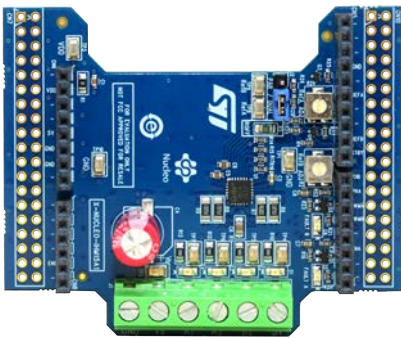


## Dual brush DC motor driver expansion board based on STSPIN840 for STM32 Nucleo



### Features

- Voltage range from 7 to 45 V
- Output current up to 1.5 A<sub>rms</sub> for each motor
- Two independent current limiters with adjustable OFF time
- Full protection set including: overcurrent, short-circuit, under voltage lock out and thermal shutdown
- Parallel operation
- Compatible with Arduino UNO R3 connector
- Compatible with [STM32 Nucleo](#) boards

### Description

The [X-NUCLEO-IHM15A1](#) dual brush DC motor driver expansion board is based on the [STSPIN840](#) for [STM32 Nucleo](#).

It provides an affordable and easy-to-use solution for the implementation of compact motor driving applications such as thermal printers, robotics and toys.

Thanks to the parallel operation, it can be easily converted to a single brush DC driver with double current capability.

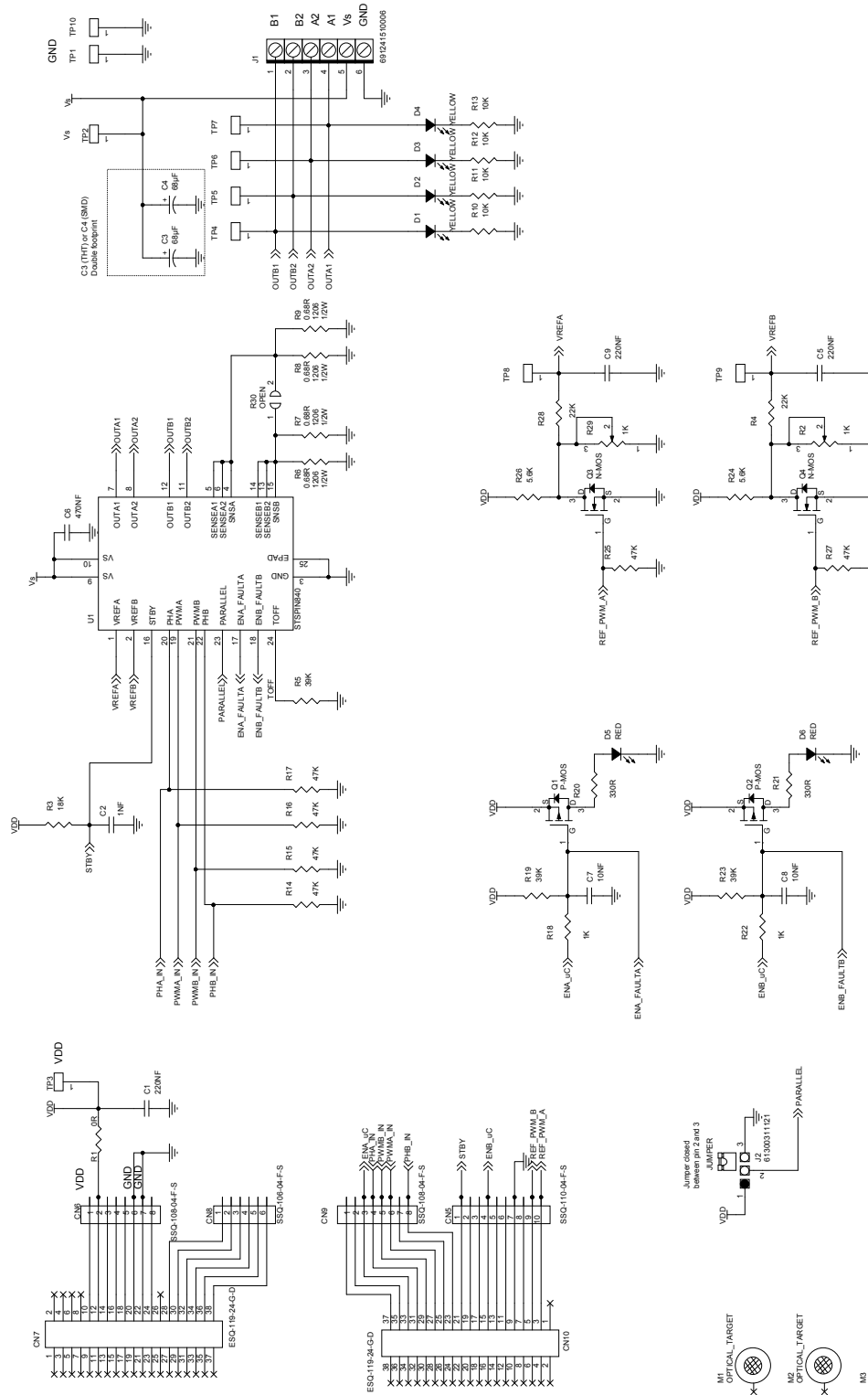
The current limiters and complete set of protection features make it suitable for rugged applications.

The [X-NUCLEO-IHM15A1](#) is compatible with the Arduino UNO R3 connector and most [STM32 Nucleo](#) boards.

Product summary	
Dual brush DC motor driver expansion board based on STSPIN840 for STM32 Nucleo	<a href="#">X-NUCLEO-IHM15A1</a>
Dual brush DC motor driver	<a href="#">STSPIN840</a>
STM32 Nucleo development board	<a href="#">STM32 Nucleo</a>

# 1 X-NUCLEO-IHM15A1 schematic diagram

Figure 1. X-NUCLEO-IHM15A1 circuit schematic



## Revision history

**Table 1. Document revision history**

Date	Version	Changes
16-May-2018	1	Initial release.

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