

Description

The EVAL6470H-RPi board is a dual micro-stepping motor driver stackable board for the Raspberry Pi micro-computer.

The board is compatible with all member of the Raspberry Pi family.

A complete library developed on Raspberry Pi is provided with the board to give access to the complete feature set of the L6470H device.

To quickly investigate all the feature of the board, an image of the Raspberry Pi OS that integrate the L6470H library and a simple web interface to control up to 8 stepper-motor is provided.

Features

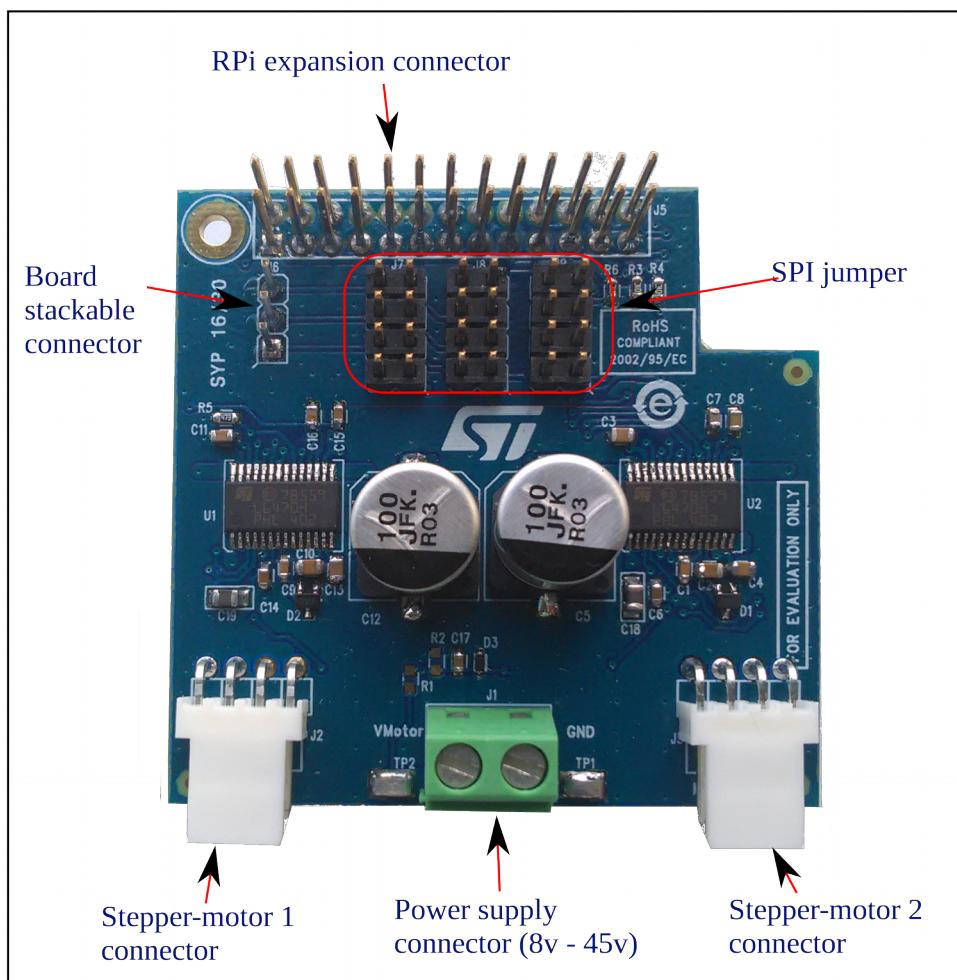
- Voltage range from 8 V to 45 V
- Phase current up to 3 A r.m.s
- Two L6470H driver per board to control two micro-stepping motor.
- Up to 1/128 micro-stepping
- Up to four boards can be stacked
- Compatible with all version of Raspberry PI.
- RoHS compliant

1 Board description

Table 1. Electrical specifications

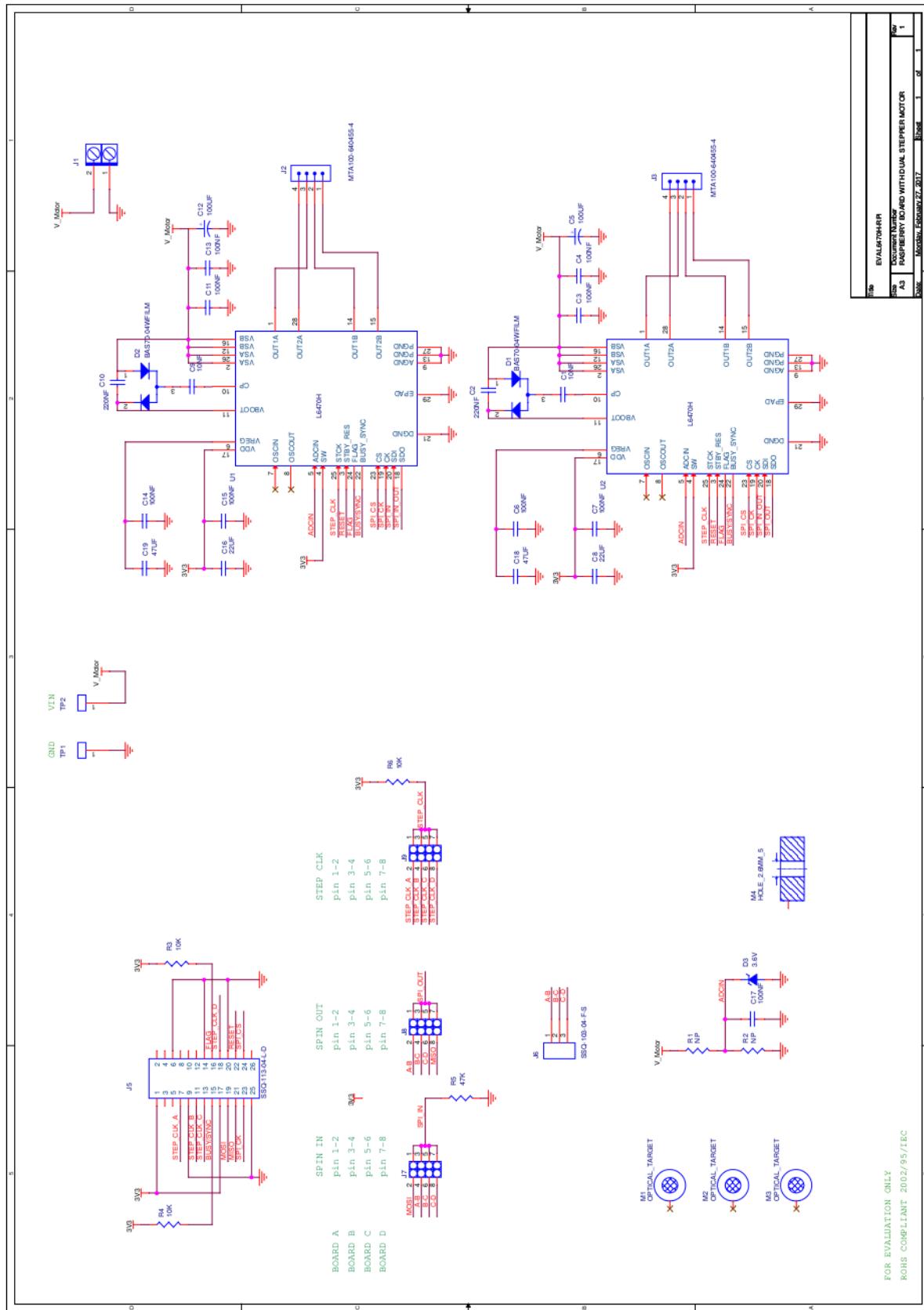
Parameter	Value
Supply voltage (V_S)	8 to 45v
Maximum output current (each phase)	3A
Logic supply voltage (V_{REG})	3v (internal supply)
Logic interface voltage (V_{DD})	3.3v (internal supply)
Low level logic inputs voltage	0v
High level logic input voltage	V_{DD}
Stepping	Up to 1/128 micro-stepping
Operating temperature	-25°C to 125°C

Figure 1. Jumper and connector locations



2 Schematic diagram

Figure 2. EVAL6470H-RPi circuit schematic



3 Revision history

Table 2. Document revision history

Date	Revision	Changes
06-Mar 2017	1	Initial release

