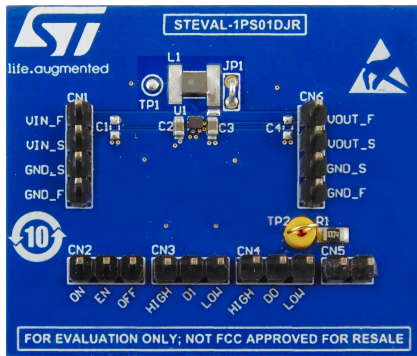


## Evaluation board based on ST1PS01DJR 400 mA nano-quiescent synchronous step-down converter



### Features

- 1.8 V to 5.5 V input operating range
- Up to 400 mA output current capability
- Tiny external components: L=2.2  $\mu$ H typ
- Selectable output voltages: 1.8 V to 2.8 V
- Output voltage Power Good
- Dynamic output voltage selection (D0, D1)
- Suitable for the following applications:
  - Wearable applications
  - Personal tracking monitors
  - Smart watches, sport bands
  - Energy harvesting, wireless sensors
  - Wearable and fitness accessories
  - Industrial sensors, portable low power devices
  - Single cell Li-Ion battery applications
  - Bluetooth® low energy
  - ZigBee®
- WEEE and RoHS compliant (hardware only)

### Description

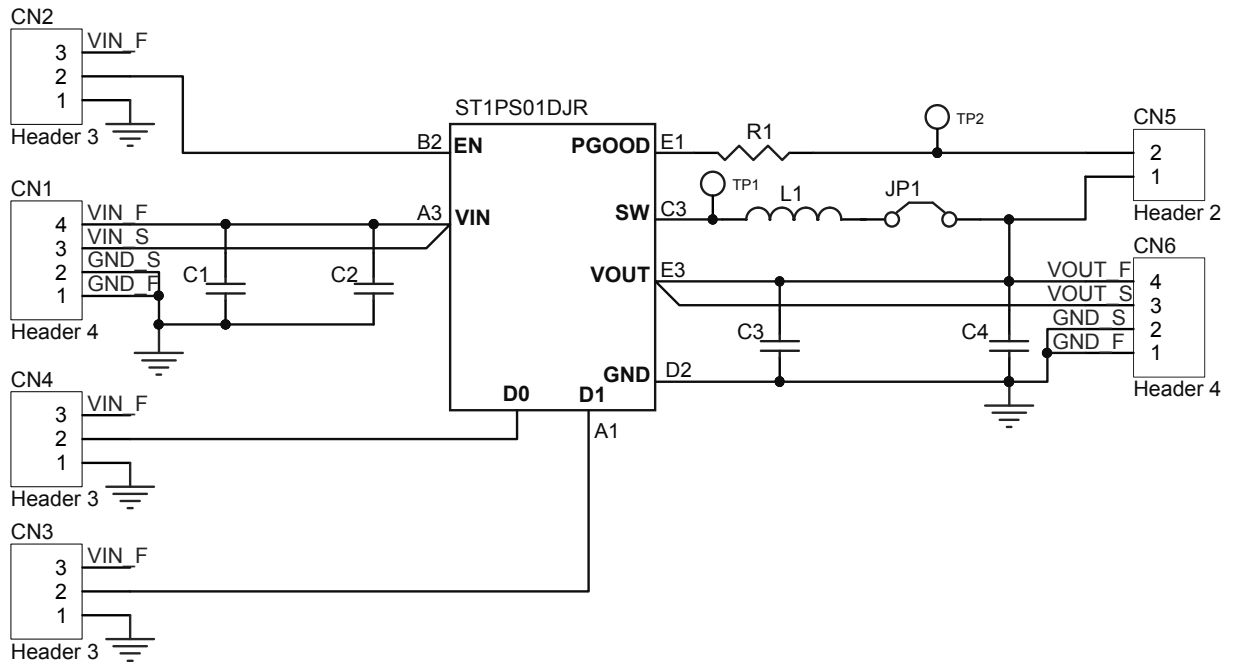
The STEVAL-1PS01DJR evaluation board features the ST1PS01 miniaturized, nano-quiescent, synchronous step-down converter designed for applications where high efficiency and PCB size and thickness are key factors.

The converter can provide up to 400 mA output current with a 1.8 V to 5.5 V input voltage range. The output voltage can be dynamically adjusted from 1.8 V to 2.8 V using two digital control inputs.

Thanks to the enhanced peak current control (PCC), the ST1PS01 can achieve very high efficiency conversion using only a 2.2  $\mu$ H inductor and two small capacitors. Furthermore, the advanced design circuitry reduces quiescent current to a minimum.

Product summary	
Evaluation board based on ST1PS01DJR 400mA nano-quiescent synchronous step-down converter	STEVAL-1PS01DJR
400 mA nano-quiescent synchronous step-down converter with digital voltage selection and power good	ST1PS01

# 1 Schematic diagram

**Figure 1. STEVAL-1PS01DJR board schematic**


## Revision history

**Table 1. Document revision history**

Date	Version	Changes
01-Apr-2019	1	Initial release.