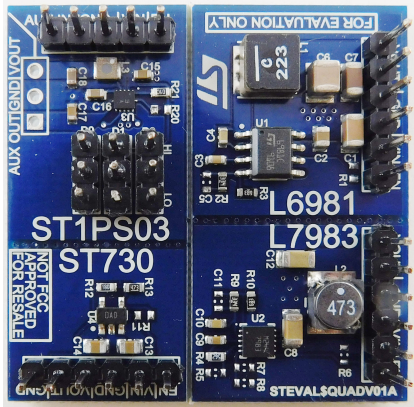


Power management evaluation board based on the stepdown regulators L6981, L7983, ST1PS03, and the ST730 LDO



Features

- L6981
 - 3.5 V to 38 V operating input voltage
 - Output voltage from 0.85 V to VIN
 - 1.5 A DC output current
 - Internal compensation network
 - 2 µA shutdown current
 - Internal soft-start
 - Enable function
 - Overvoltage protection
 - Thermal protection
- L7983
 - 3.5 V to 60 V operating input voltage
 - Output voltage from 0.85 V to VIN
 - 300 mA DC output current
 - Internal compensation network
 - 2.3 µA shutdown current
 - Internal soft-start
 - Enable function
 - Overvoltage protection
- ST1PS03
 - 1.8 V to 5.5 V operating input voltage
 - Output voltage selectable from 1.6 V to 3.3 V
 - 400 mA DC output current
 - 500 nA (typ.) quiescent current
 - Load switch controlled by AUX input
 - Enable function
- ST730
 - 2.5 V to 28 V input voltage range
 - Output voltage from 1.2 V to VIN
 - 300 mA DC output current
 - 5 µA (typ) no-load quiescent current
 - Current limit and SOA protection
 - Enable function

Description

The **STEVAL-QUADV01** evaluation board is based on the **L6981** (capable of delivering up to 1.5 A DC), the **L7983** (capable of delivering up to 300 mA DC), the **ST1PS03** (capable of delivering up to 400 mA DC) synchronous monolithic step-down regulators, and the **ST730** (capable of delivering up to 300 mA DC) LDO regulator.

The combination of input voltage and output current ranges, and other embedded features makes the evaluation tool suitable for a broad range of applications.

Product summary

Power management evaluation board based on the stepdown regulators L7983, L6981, ST1PS03, and the ST730 LDO	STEVAL-QUADV01
38 V, 1.5 A synchronous step-down converter with low quiescent current	L6981CDR
60 V 300 mA synchronous step-down switching regulator with 10 µA quiescent current	L7983PUR
400 mA nano-quiescent synchronous step-down converter with digital voltage selection, Power Good and independent Load Switch	ST1PS03AQTR
300 mA, 28 V low-dropout voltage regulator, with 5 µA quiescent current	ST730MR

**Product summary**

Applications	DC-DC Converters, Linear Voltage Regulators
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Schematic diagrams

Figure 1. STEVAL-QUADV01 circuit schematic (1 of 4)

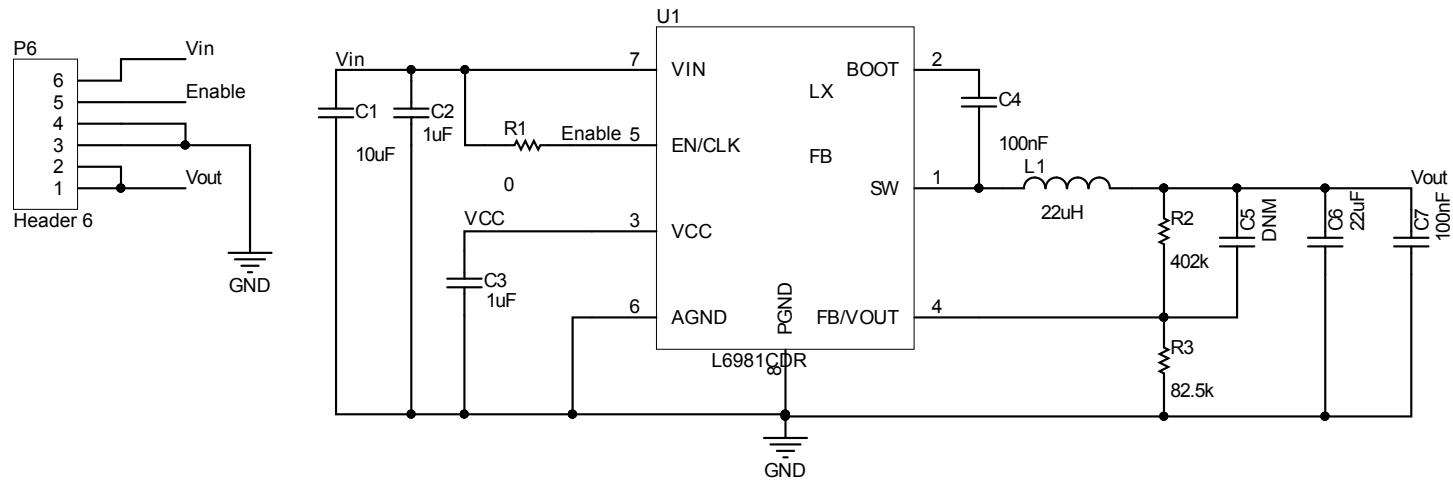
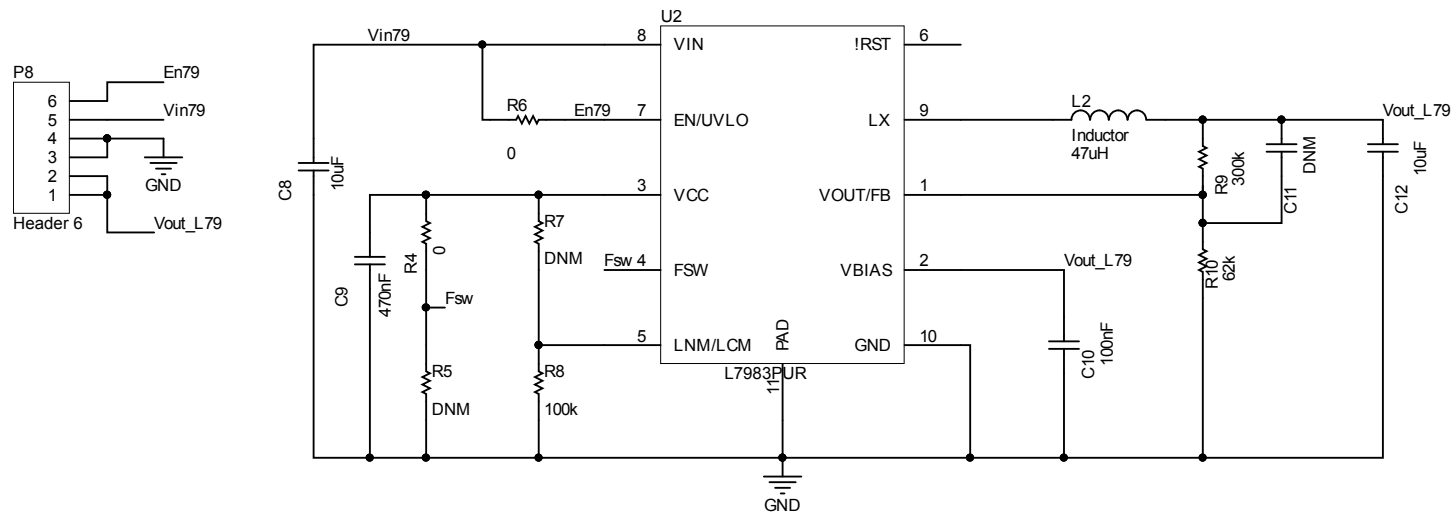
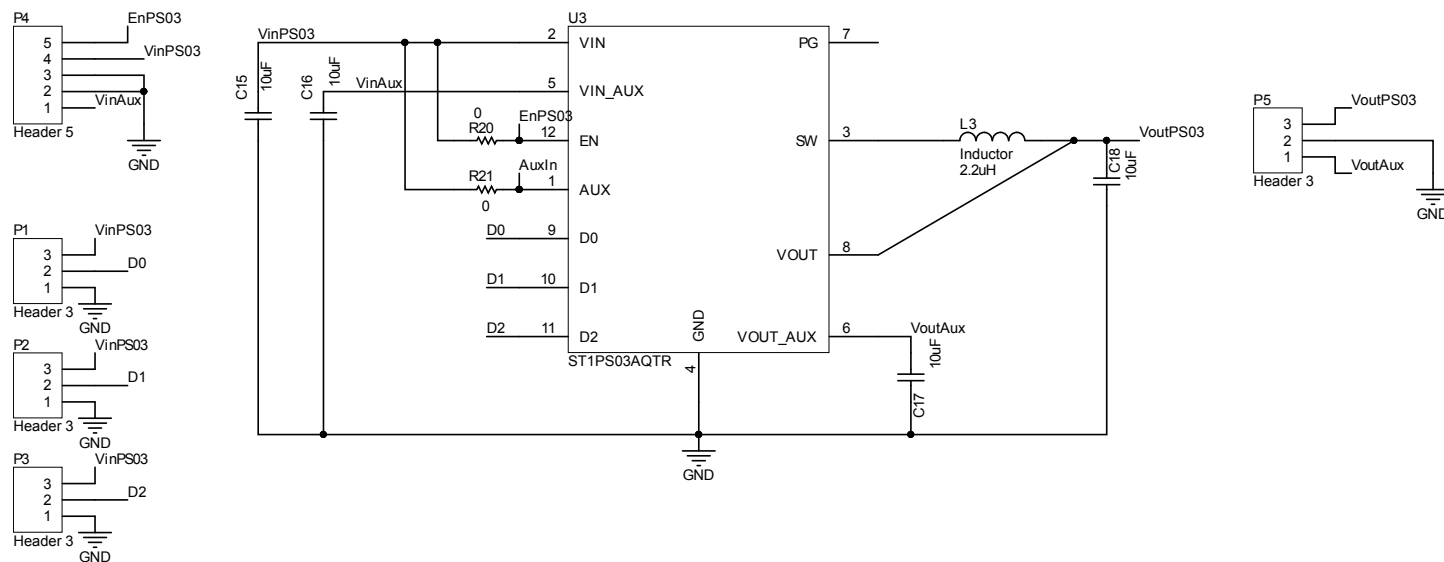


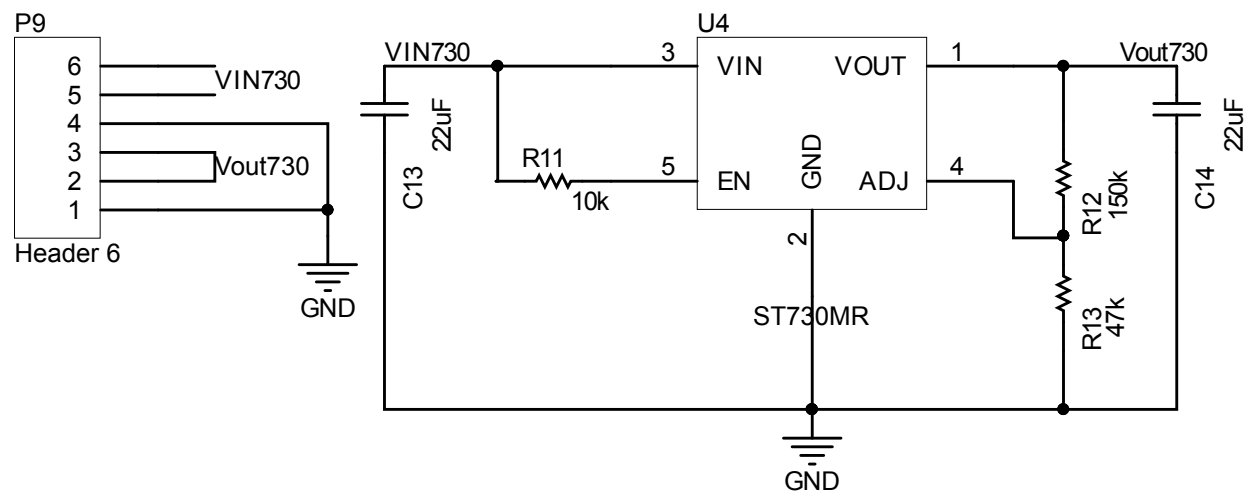
Figure 2. STEVAL-QUADV01 circuit schematic (2 of 4)





STEval-QUADV01

Schematic diagrams



Revision history

Table 1. Document revision history

Date	Version	Changes
17-Apr-2023	1	Initial release.

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