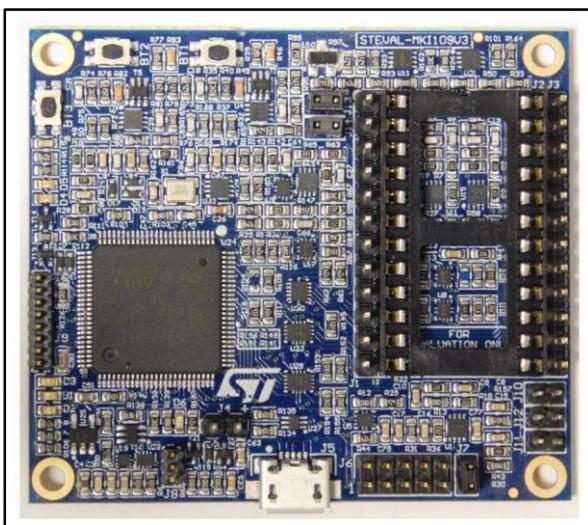


## Professional MEMS tool: ST MEMS adapters motherboard based on the STM32F401VET6 compatible ST MEMS adapters

Data brief



### Description

The STEVAL-MKI109V3 motherboard provides users with a complete, ready-to-use platform for the evaluation of STMicroelectronics MEMS products. It includes a high-performance 32-bit microcontroller which functions as a bridge between the sensors and a PC, on which you can download and run the graphical user interface (GUI) or dedicated software routines for customized applications.

The board features a DIL24 socket to mount all available adapters for both digital and analog output MEMS devices.

### Features

- Compatible with all available ST MEMS adapter boards
- Controlled by the STM32F401VET6 high-performance ARM Cortex™ - M4 microcontroller
- Includes a DIL24 socket for easy MEMS adapter connection
- Adjustable MEMS DIL24 power supply
- DFU-compatible for USB microprocessor firmware update
- USB 2.0 full-speed compliant
- Debugging connector for SWD/JTAG
- RoHS compliant

# 1 Schematic diagrams

Figure 1: STEVAL-MKI109V3 circuit schematic (1 of 8)

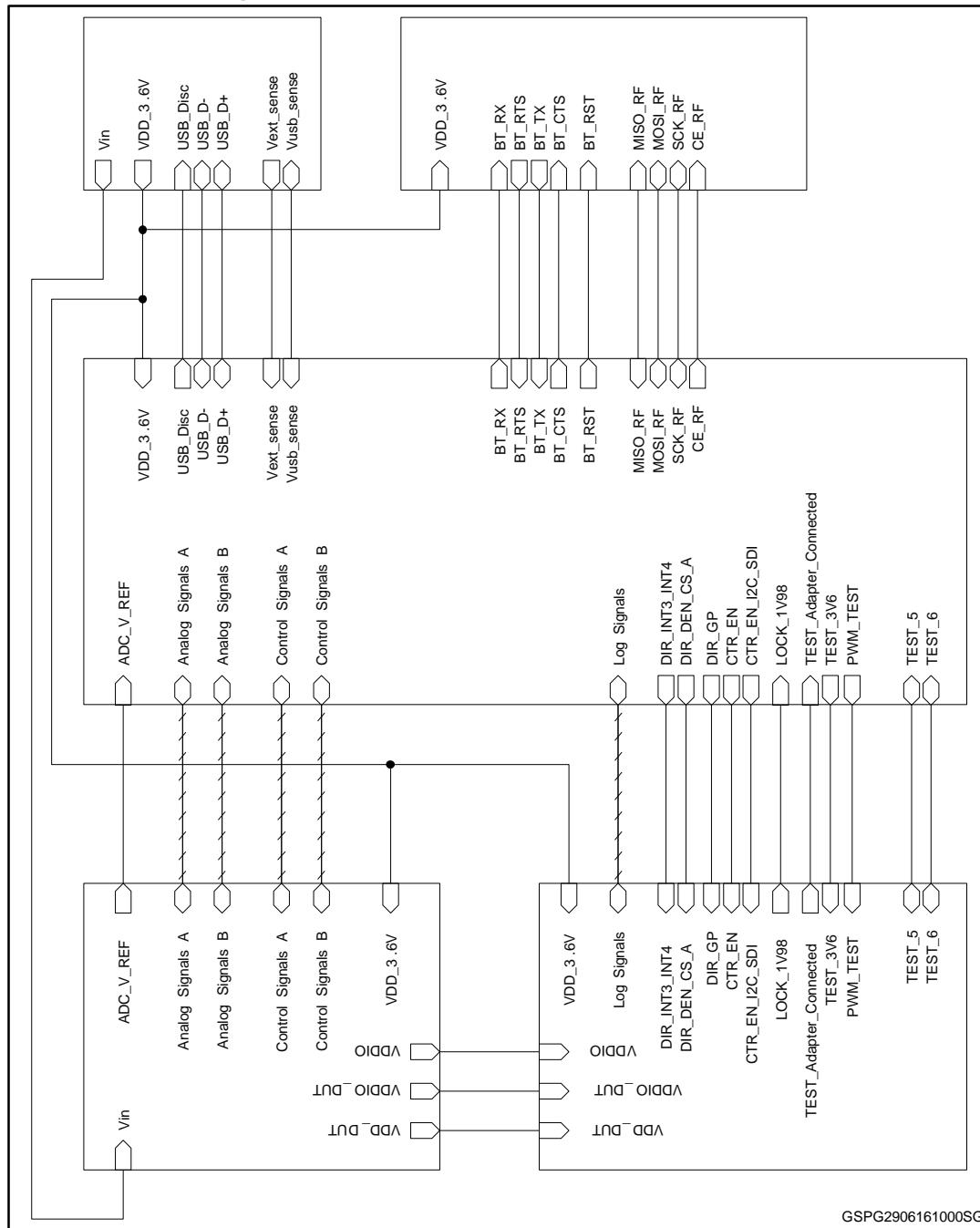
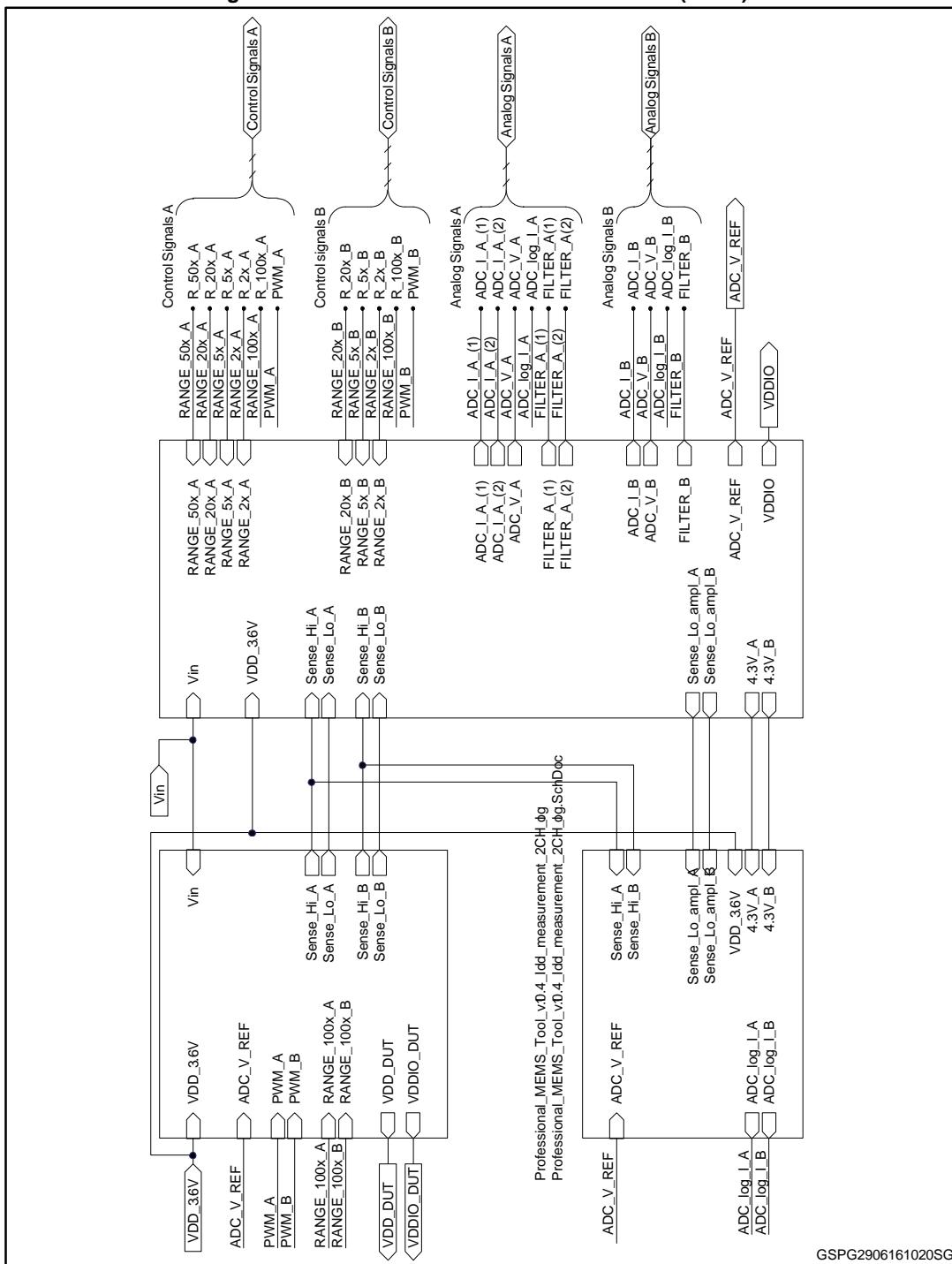


Figure 2: STEVAL-MKI109V3 circuit schematic (2 of 8)



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Figure 3: STEVAL-MKI109V3 circuit schematic (3 of 8)

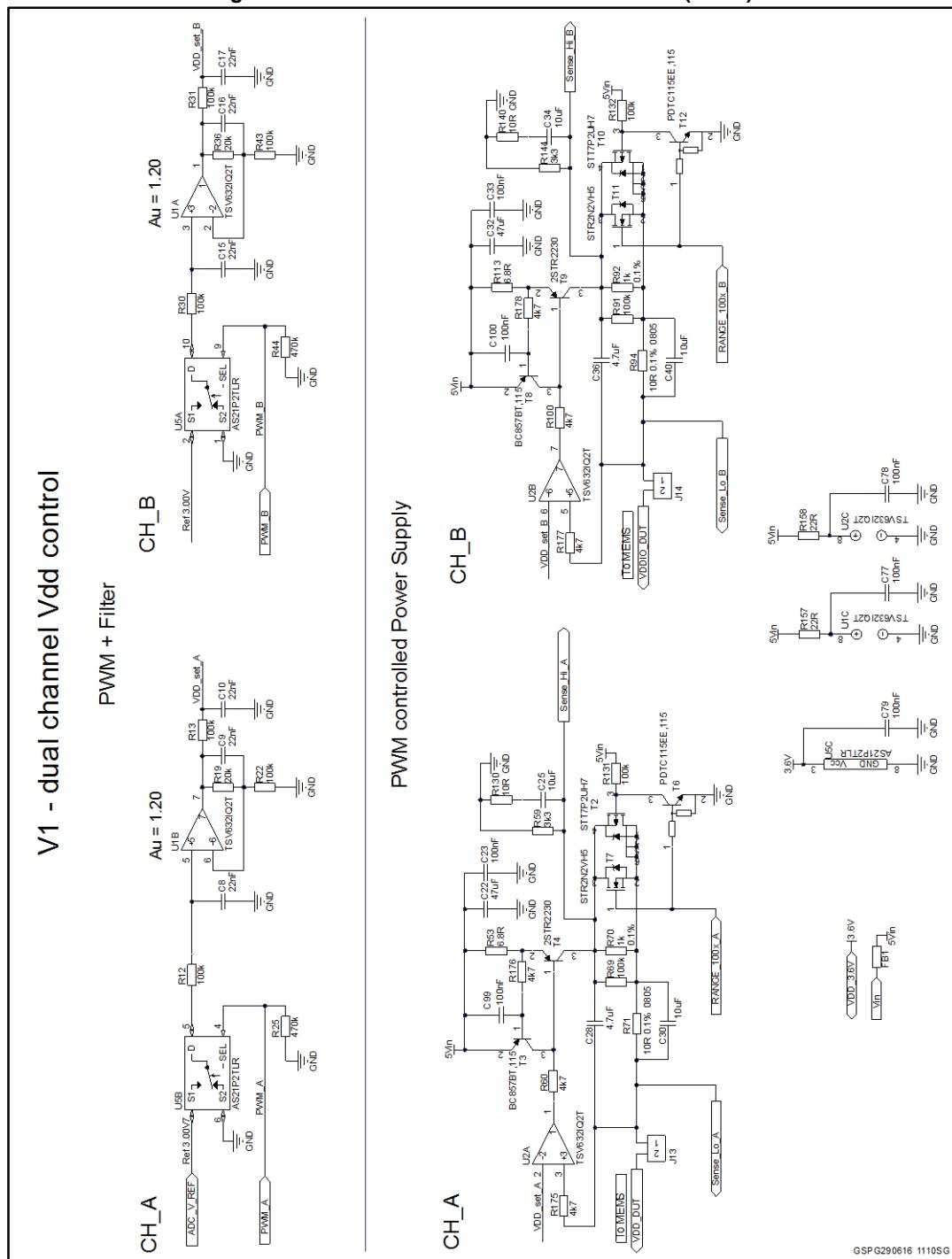
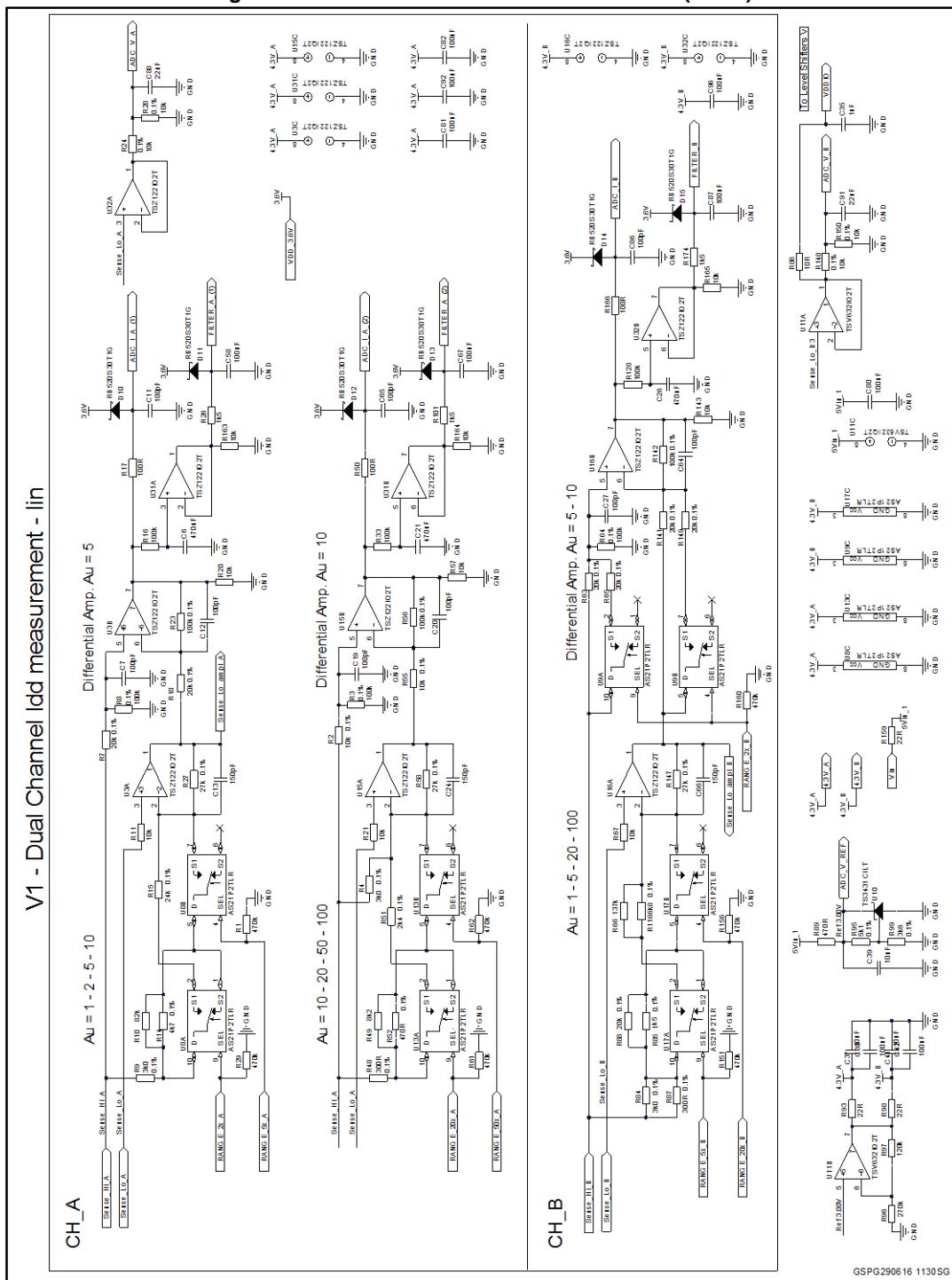


Figure 4: STEVAL-MKI109V3 circuit schematic (4 of 8)



GSPG290616 1130SG

Figure 5: STEVAL-MKI109V3 circuit schematic (5 of 8)

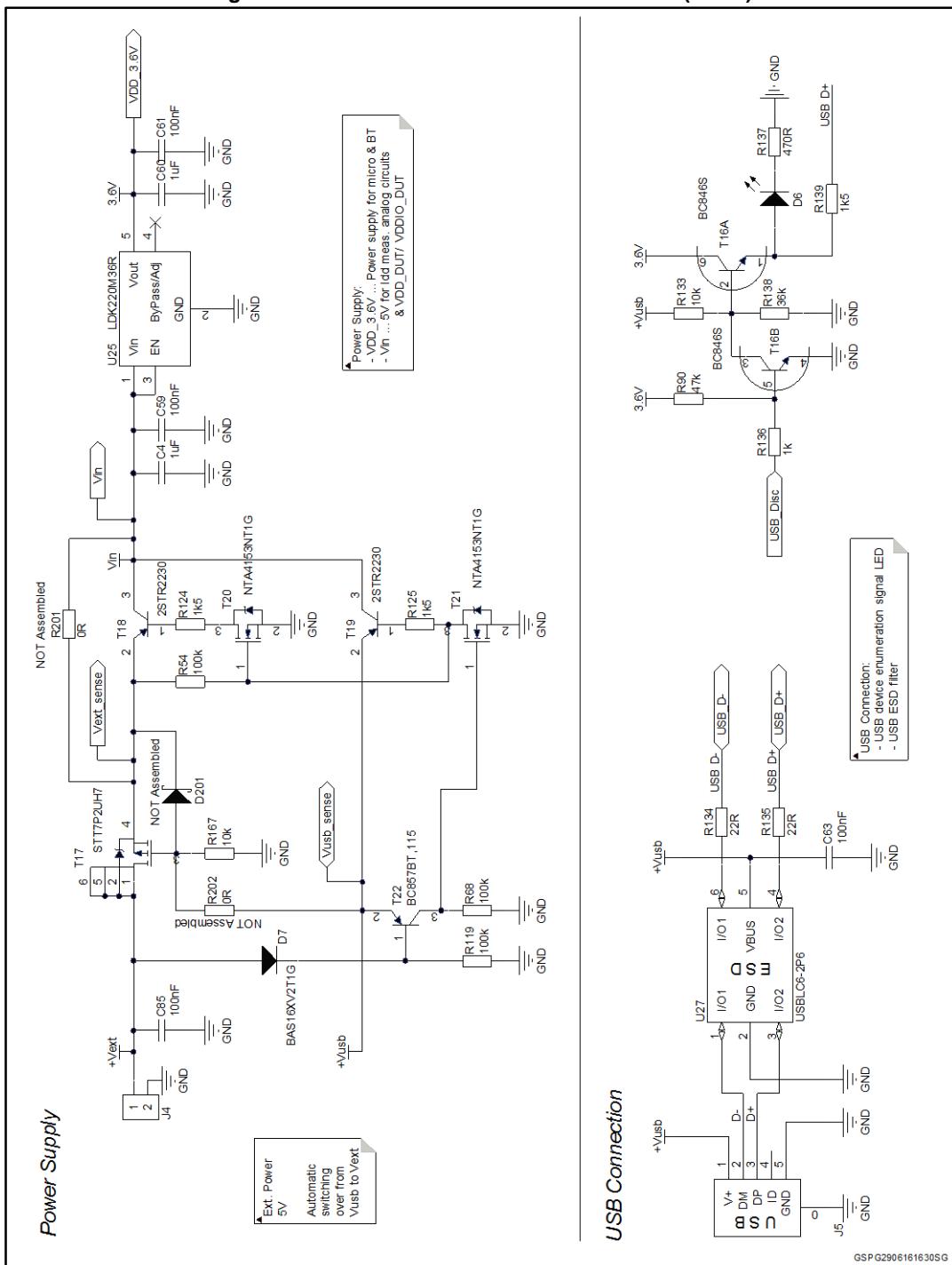
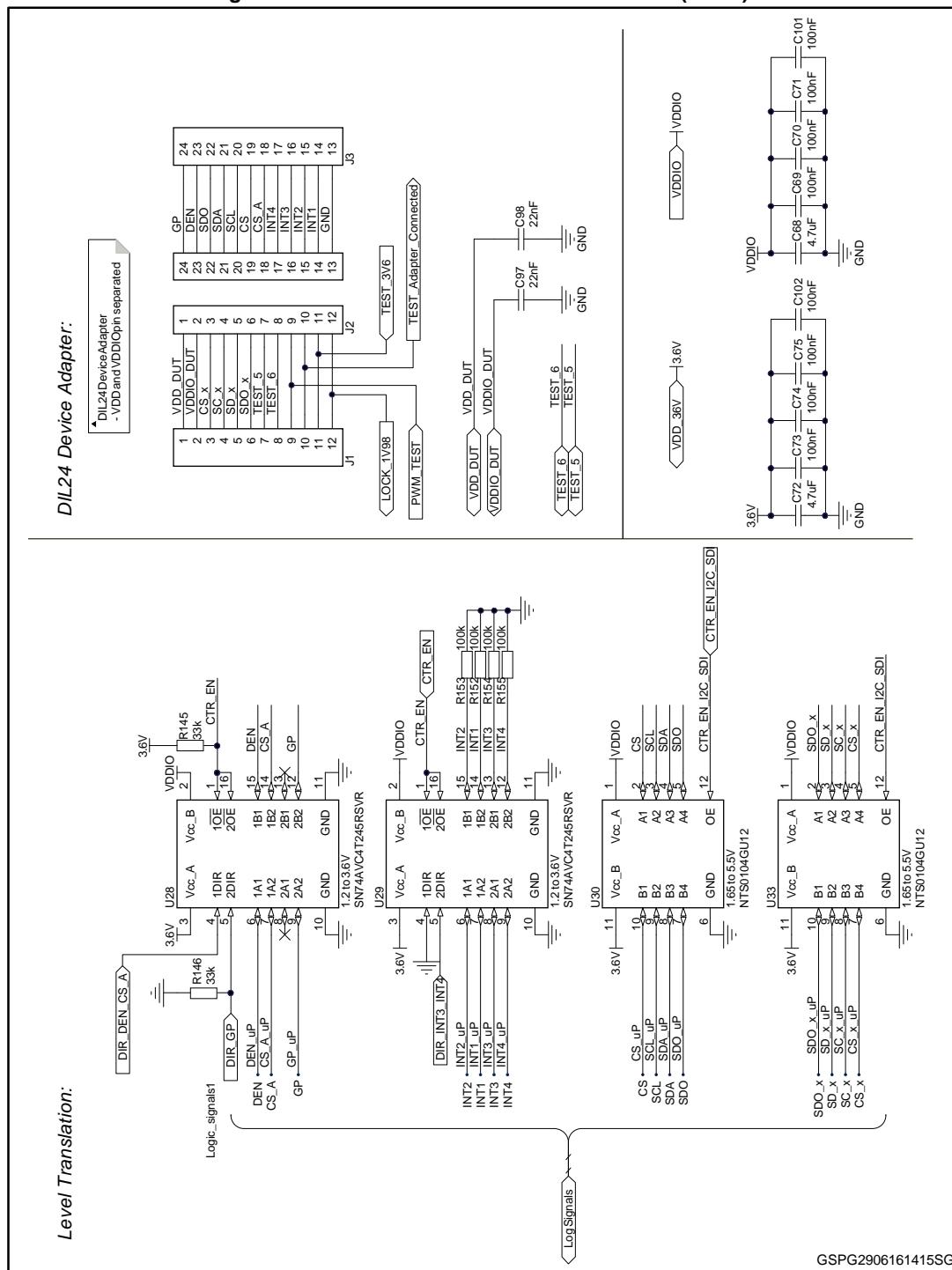


Figure 6: STEVAL-MKI109V3 circuit schematic (6 of 8)



GSPG2906161415SG

Figure 7: STEVAL-MKI109V3 circuit schematic (7 of 8)

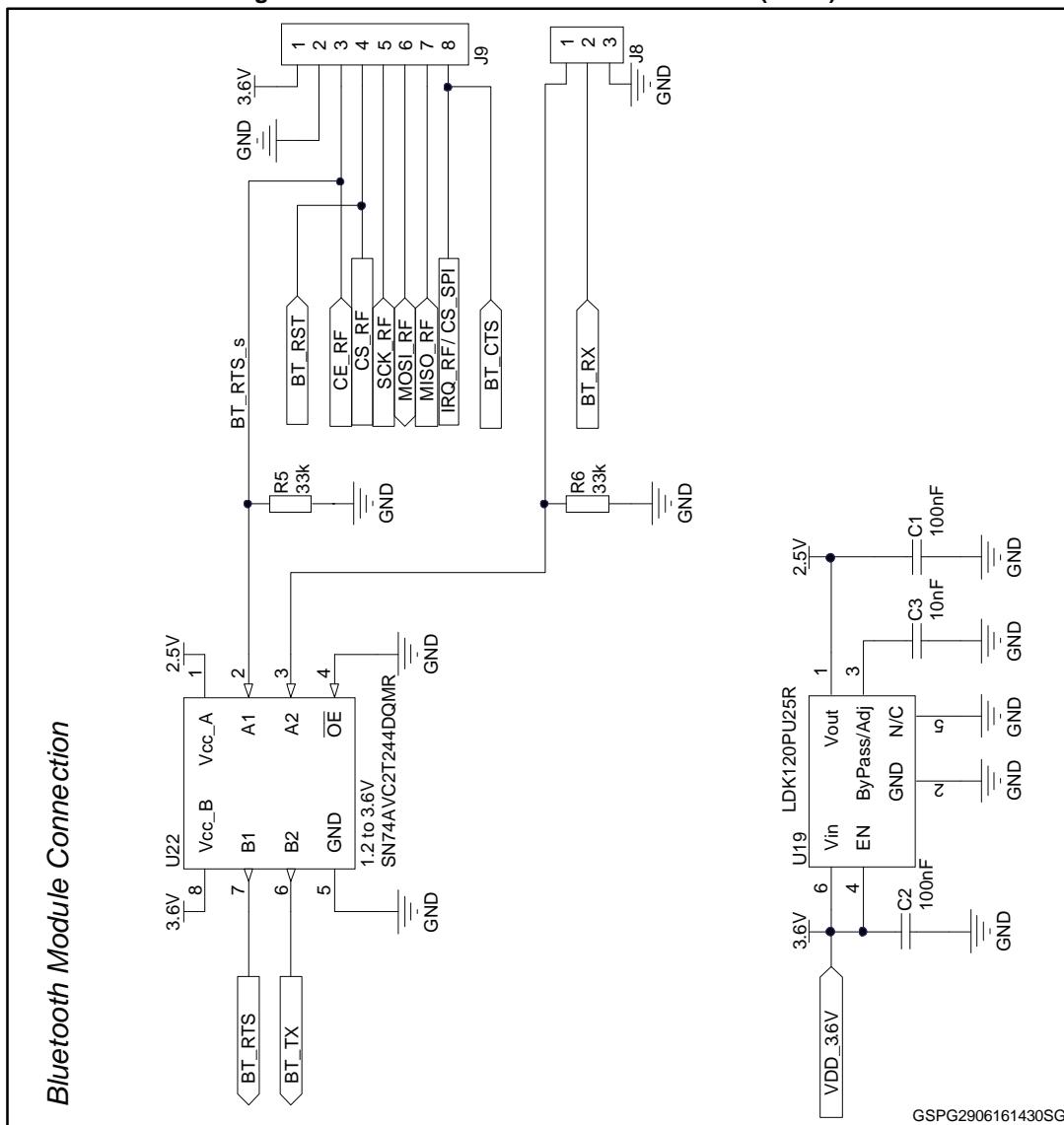
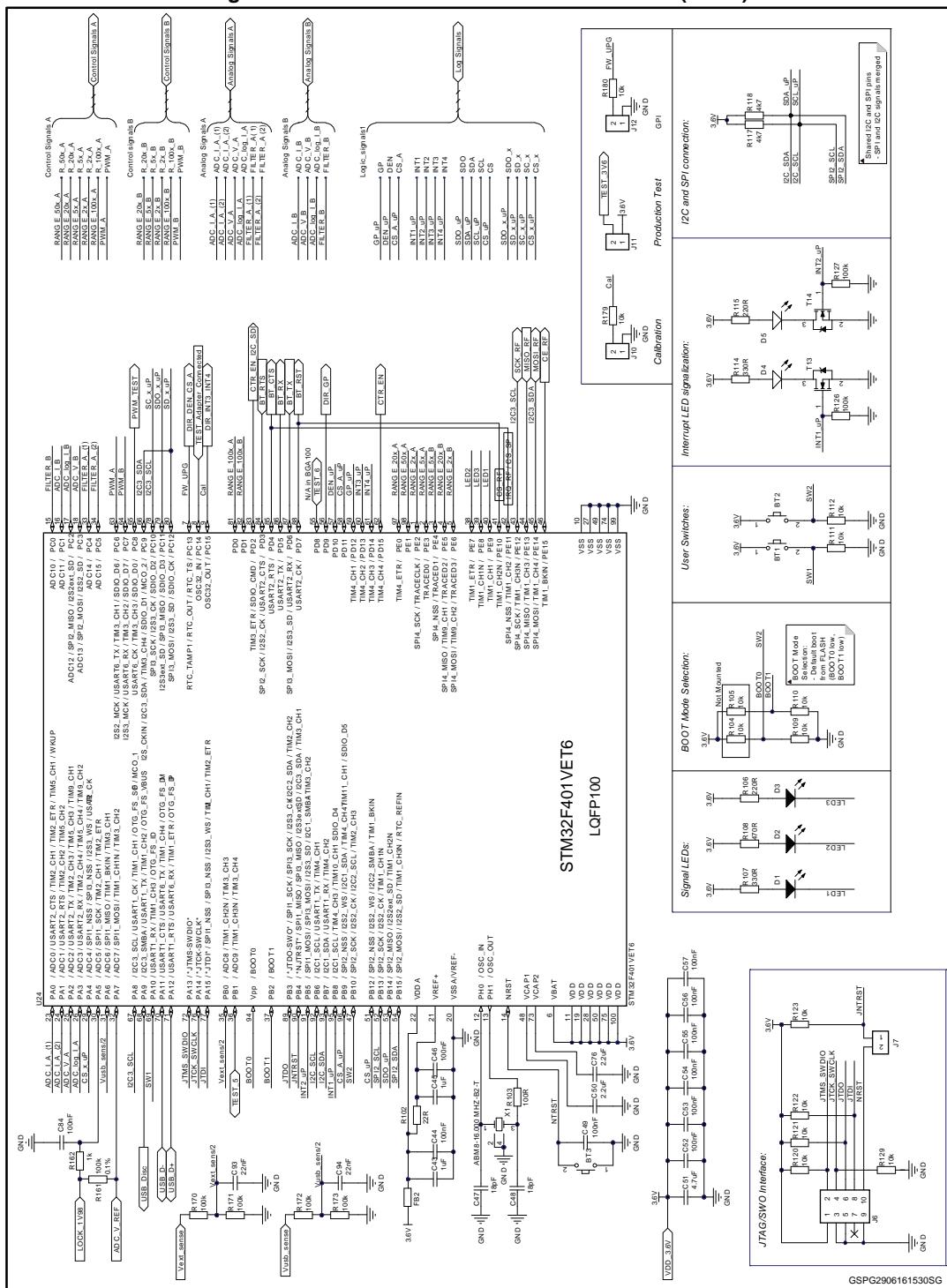


Figure 8: STEVAL-MKI109V3 circuit schematic (8 of 8)



## 2 Revision history

Table 1: Document revision history

Date	Version	Changes
04-Jul-2016	1	Initial release.

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