STEVAL-ILL029V1

Front panel demonstration board based on the STLED325 and STM8S

Data brief

Features

- 4-digit, 7-segment (with decimal point) LED display
- 8 discrete LEDs
- 8 front panel keys for control of channel, brightness and board functions
- Bi-color power/standby LED
- Interrupt indicator LED (blinks with interrupt)
- Potentiometer for adjusting display brightness
- Demo mode available
- Easily extendable to multi-format remote control operation (only RC5 supported currently)
- Embedded in-circuit programming using SWIM interface for the STM8S
- RoHS compliant



STEVAL-ILL029V1

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Description

The STEVAL-ILL029V1 front panel demonstration board provides an evaluation platform for the STLED325 advanced LED controller driver, and the STM8S 8-bit microcontroller as I^2C master.

The features of the STLED325 that this front panel application demonstrates include key scanning, RTC, IR decoding, and standby management. These features are required to address the market segment for DVD players, DVD recorders, set-top boxes, washing machines and many others, while keeping system costs as low as possible.

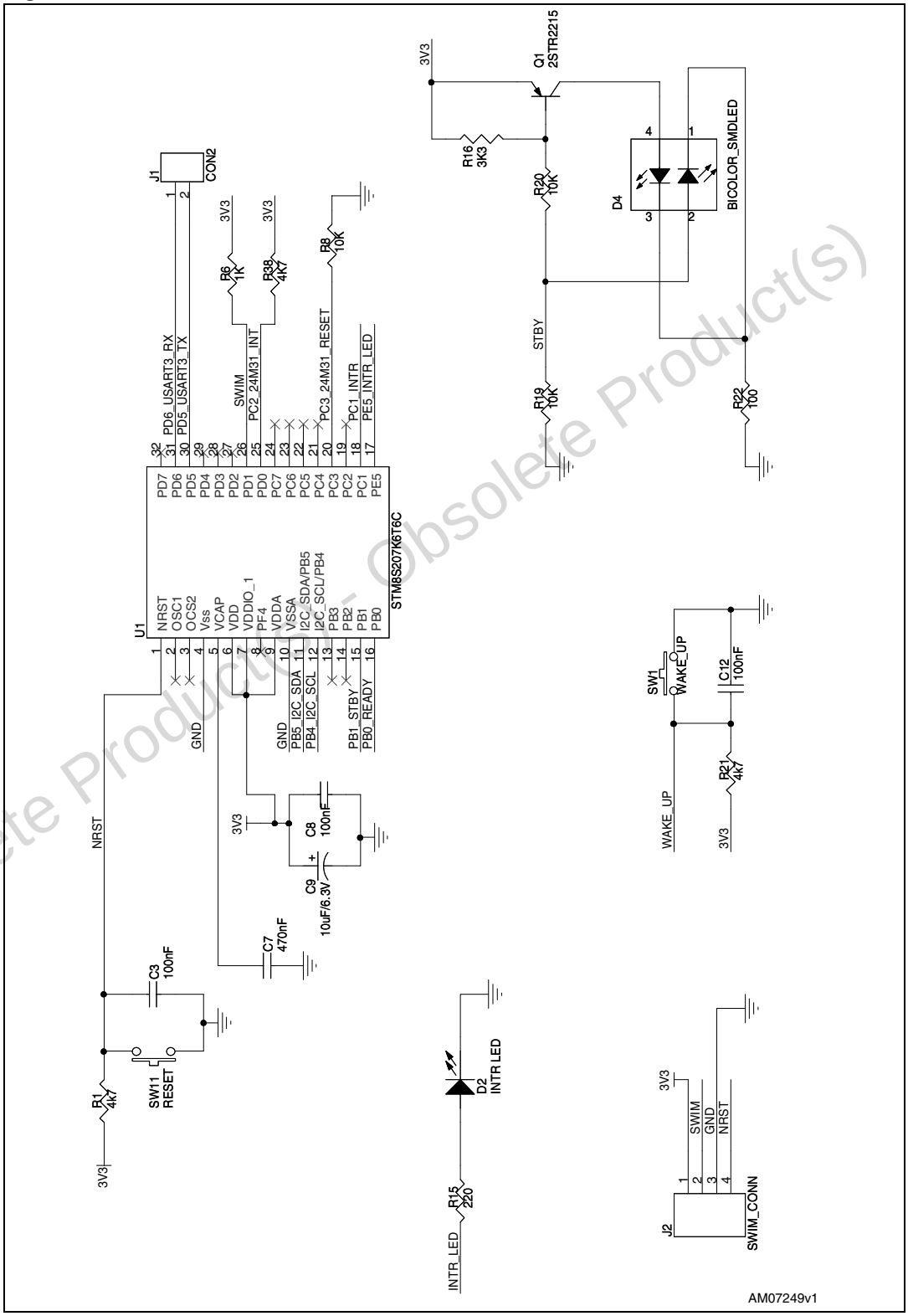
The system can be operated using the front panel keys mounted on the board, or by remote control.

System I/Os are handled completely by the STLED325, with minimal load on the host processor.

For further information contact your local STMicroelectronics sales office. www.st.com

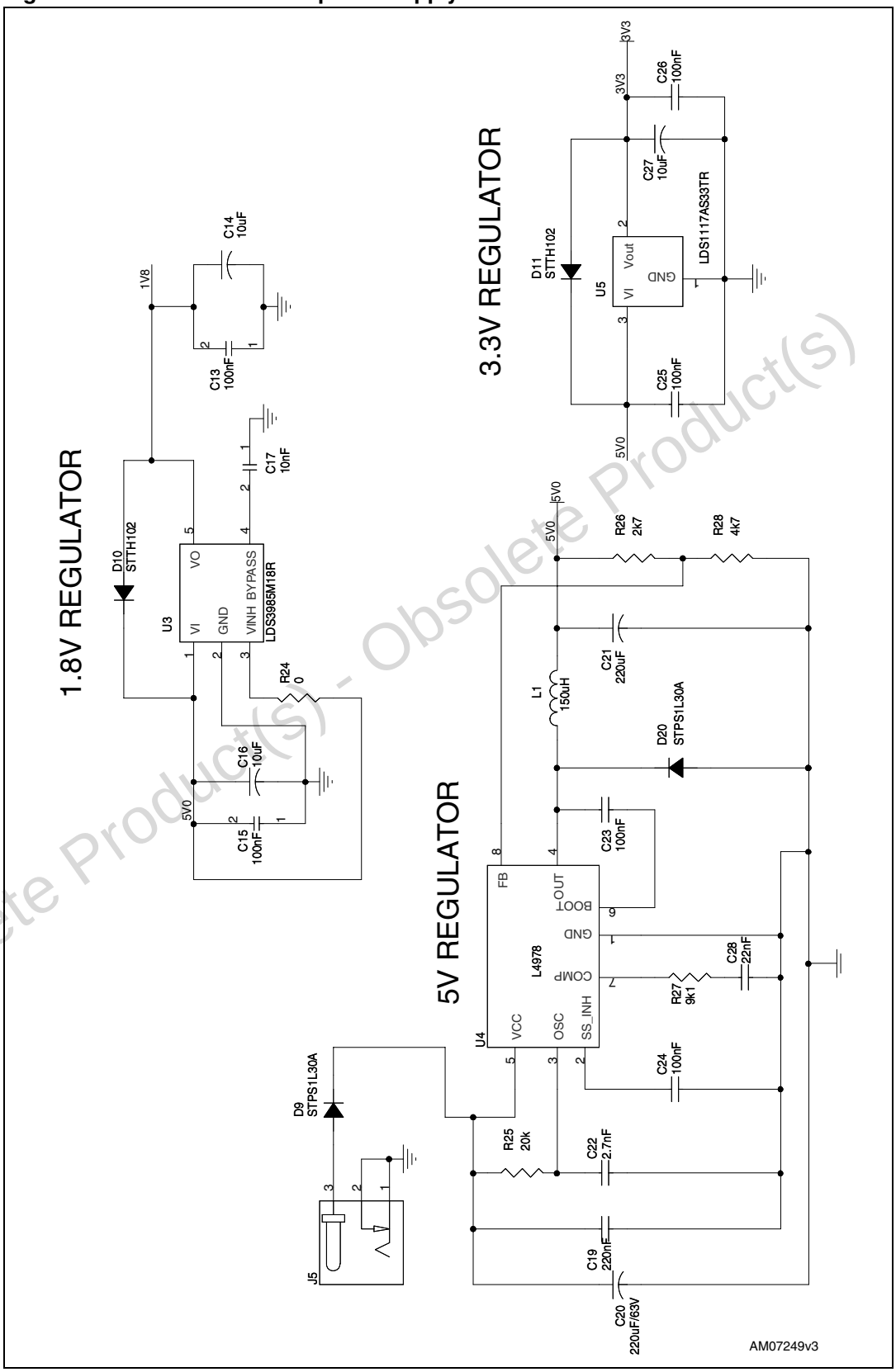
1 Schematic diagram

Figure 1. STEVAL-ILL029V: microcontroller



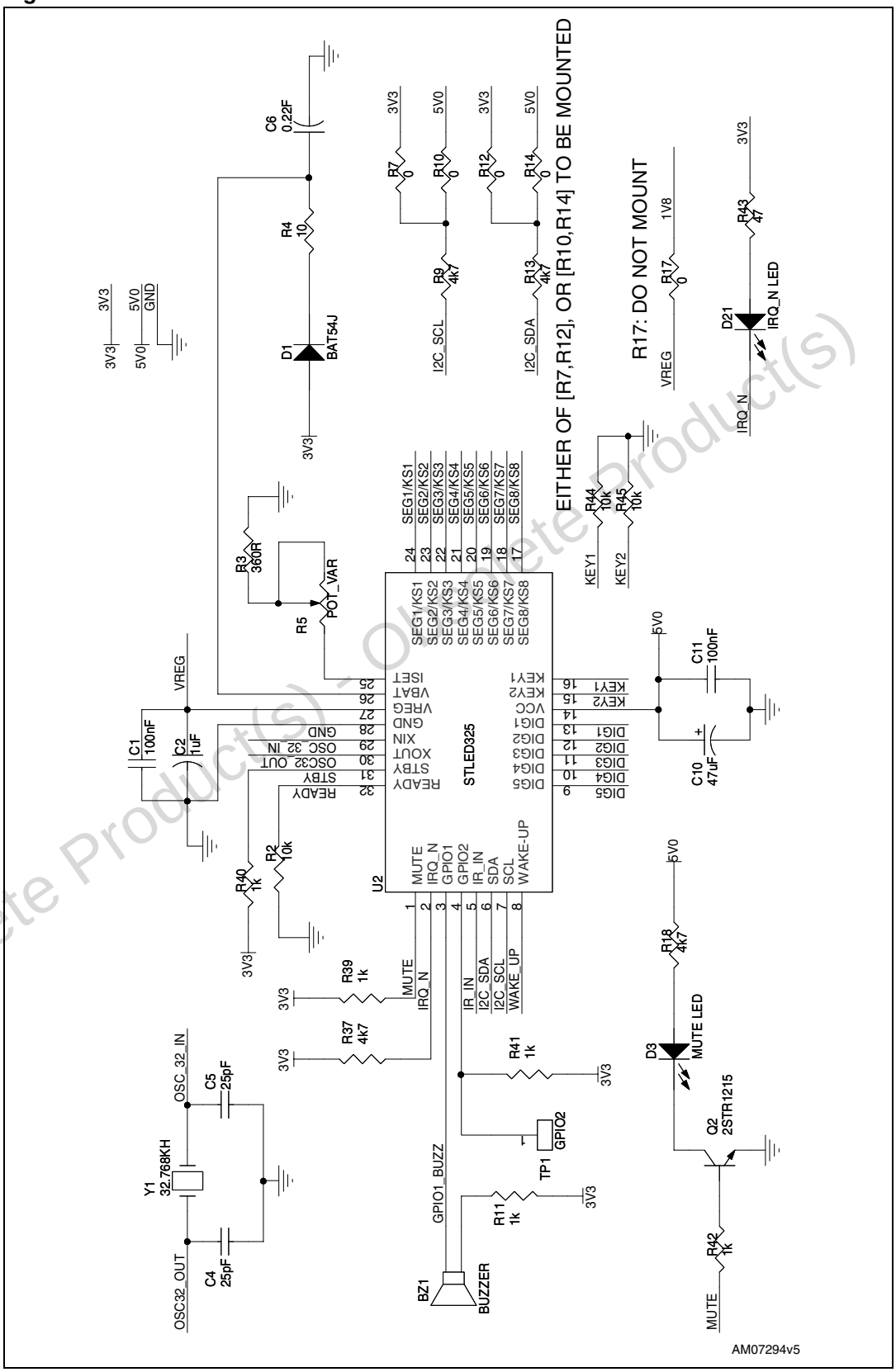
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Figure 2. STEVAL-ILL029V: power supply



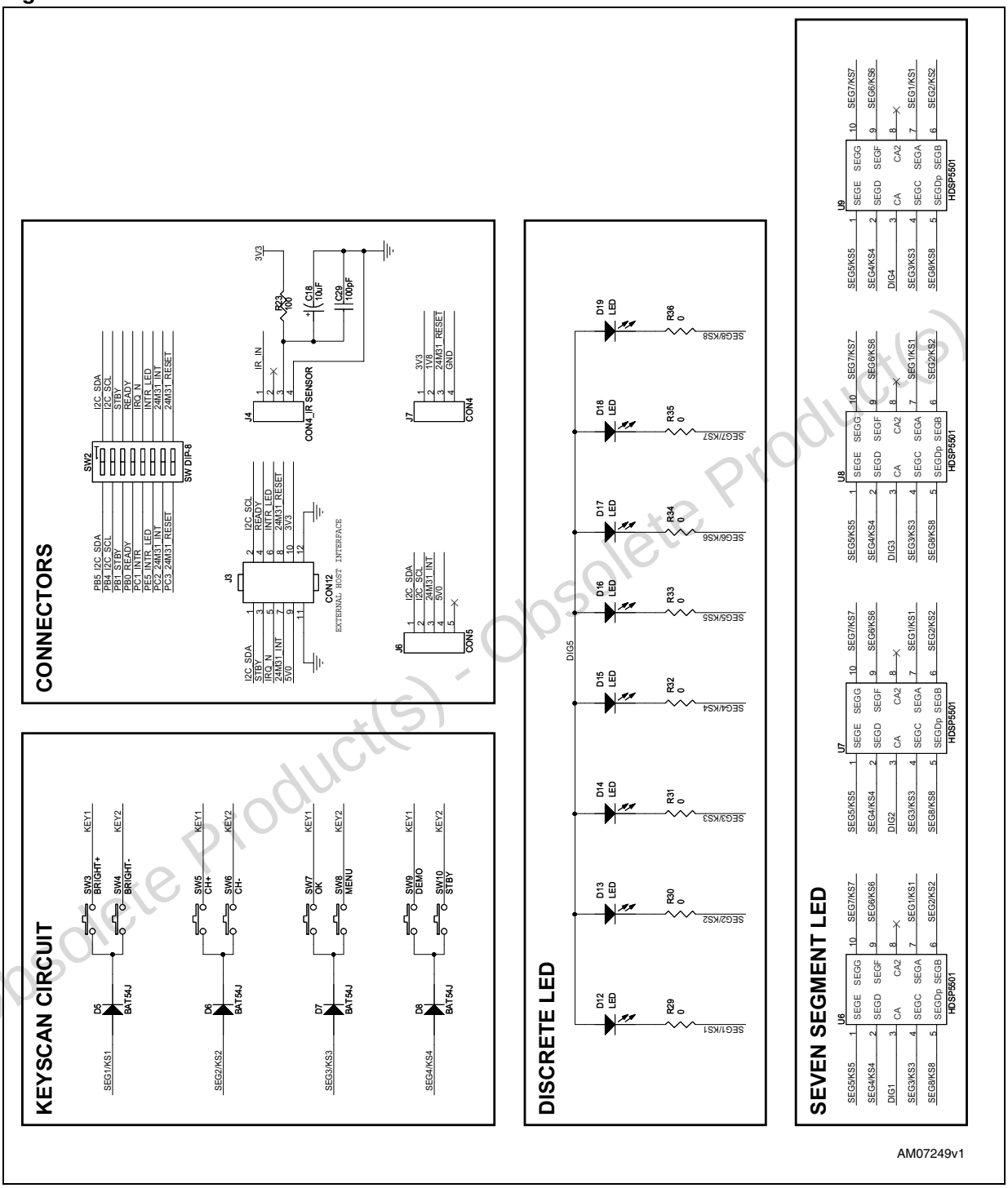
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Figure 3. STEVAL-ILL029V: STLED325



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Figure 4. STEVAL-ILL029V: other blocks



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2 Revision history

Table 1. Document revision history

Date	Revision	Changes
23-Jun-2010	1	Initial release.

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