



STEVAL-ILL025V1

STP16DP05-based display unit for LED matrix display demonstration system

Data brief

Features

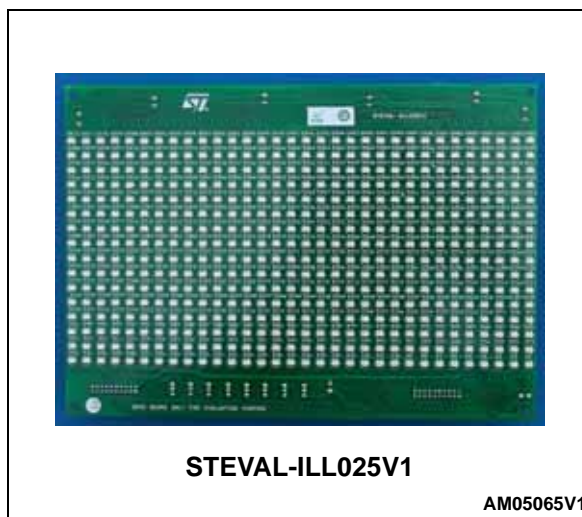
- 16 x 32 LED matrix display
- Supports up to 8 additional cascaded display units in series
- Controlled by a single control unit supporting up to 254 display units
- Configurable through Windows® HyperTerminal™ via serial interface and through a PS2 keyboard
- RoHS compliant

Description

The STEVAL-ILL025V1 LED matrix display panel demonstrates the capabilities of the STP16DP05 LED driver to drive an LED matrix panel. This board is the display unit of a complete LED matrix display demonstration system that also includes the STEVAL-ILL024V1 LED matrix control unit.

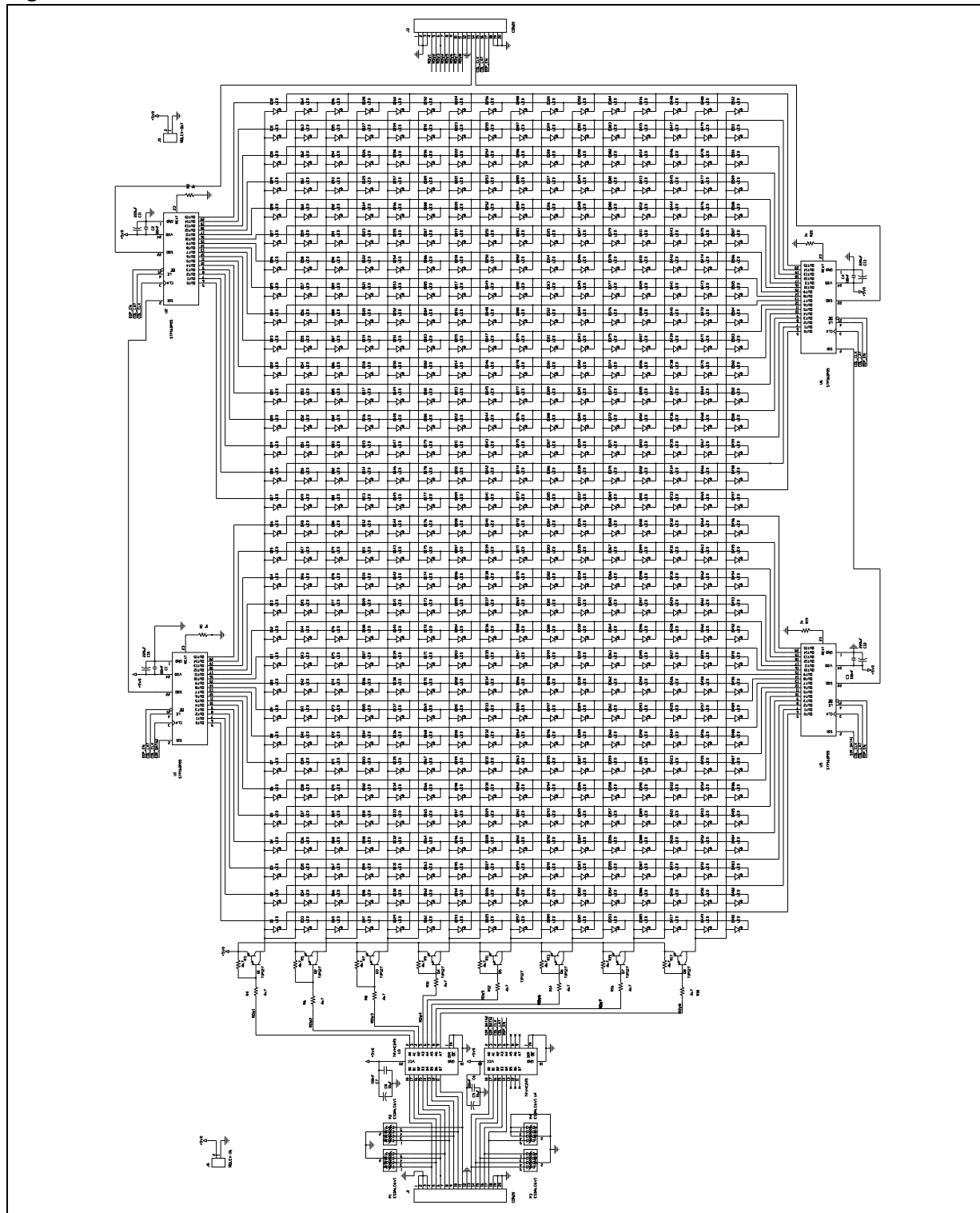
The control unit is an STM32F103VB microcontroller-based system used for configuring the settings of the STP16DP05 display driver.

The display can be configured with a PS2 keyboard for any of nine available display modes and nine different speeds, and the display settings configured through Windows® HyperTerminal™ using the serial interface included on the control unit.



1 Schematic diagram

Figure 1. Circuit schematic



2 Revision history

Table 1. Document revision history

| Date | Revision | Changes |
|-------------|----------|------------------|
| 11-Aug-2009 | 1 | Initial release. |

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