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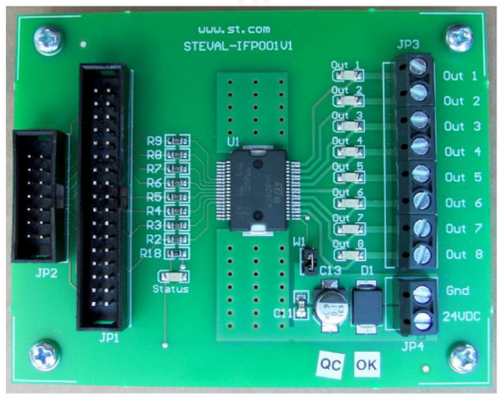
STEVAL-IFP001V1

8-channel high-side driver demonstration board with the VN808CM-E

Data brief

Features

- Compatible with existing ST tools (CANIC10, ARMIC30…, etc.)
- 8 output channels + 1 feedback channel (diagnostic - status)
- CMOS compatible signals allow direct connection to a microcontroller
- Outputs and diagnostic status indicated by LEDs
- EMC immunity proof 4 kV level EFT (IEC 61000-4-4), 2 kV voltage surge (IEC 61000-4-5)
- RoHS compliant



STEVAL-IFP001V1

The STEVAL-IFP001V1 is also based on the SM15T33A, a unidirectional Transil™ diode.

Description

The STEVAL-IFP001V1 demonstration board implements the functions of the VN808CM-E, an 8-channel high-side driver with CMOS compatible voltage levels in industrial applications, and is developed using VIPower M0-3 proprietary technology. The VN808CM-E completes the series of octal high-side drivers for the factory automation market.

It is intended for driving any kind of load with one side connected to ground and can be driven by using a 3.3 V logic supply. Active current limitation, combined with thermal shutdown and automatic restart, protects the device against overload.

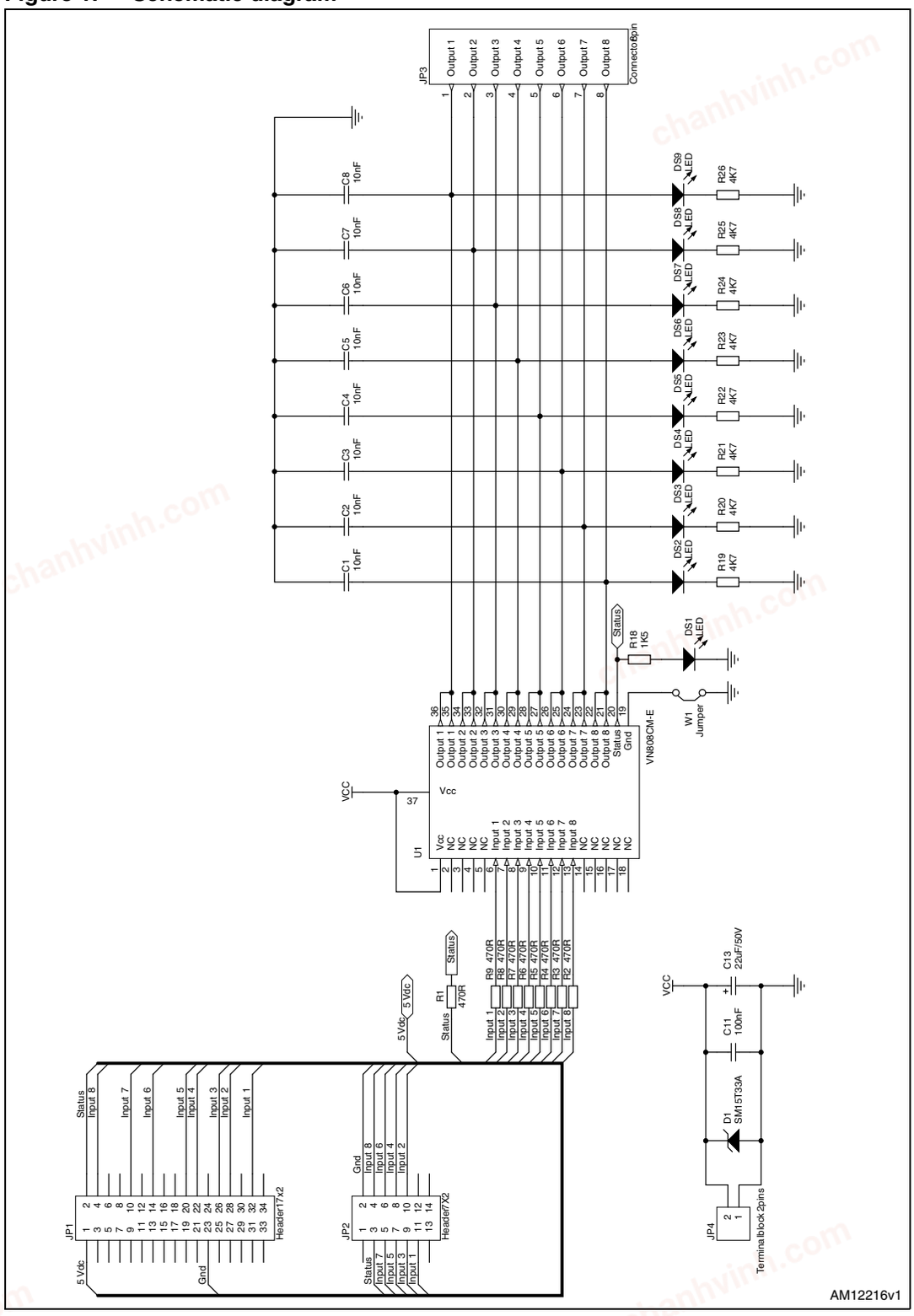
The STEVAL-IFP001V1 is compliant with international electromagnetic compatibility (EMC) specifications as well as EMC immunity proof 4 kV level EFT (IEC 61000-4-4), and 2 kV voltage surge (IEC 61000-4-5), and has been tested at different typical ambient temperatures. It is suitable for use in programmable logic controllers to produce the related digital outputs according to IEC standards.

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

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1 Schematic diagram

Figure 1. Schematic diagram



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2 Revision history

Table 1. Revision history

Date	Revision	Changes
02-Oct-2006	1	First issue
01-Jun-2012	2	– Changed photo on the coverpage – Minor text changes

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