

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

Data brief

### Features

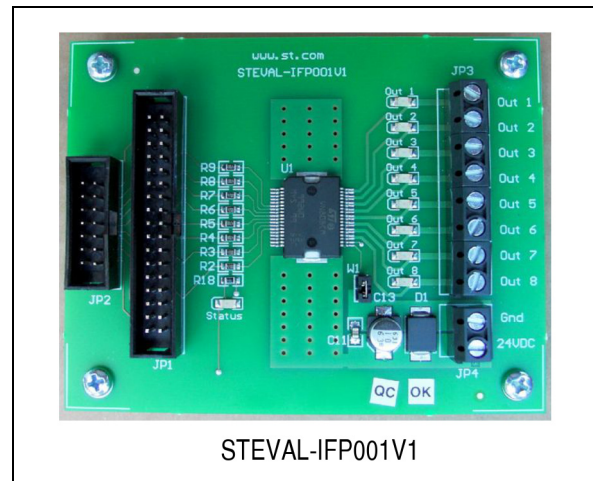
- Compatible with existing ST tools (CANIC10, ARMIC30..., etc.)
- 8 output channels + 1 feedback channel (diagnostic - status)
- CMOS compatible signals allow direct connection to a microcontroller
- Outputs and diagnostic status indicated by LEDs
- EMC immunity proof 4 kV level EFT (IEC 61000-4-4),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

### 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.

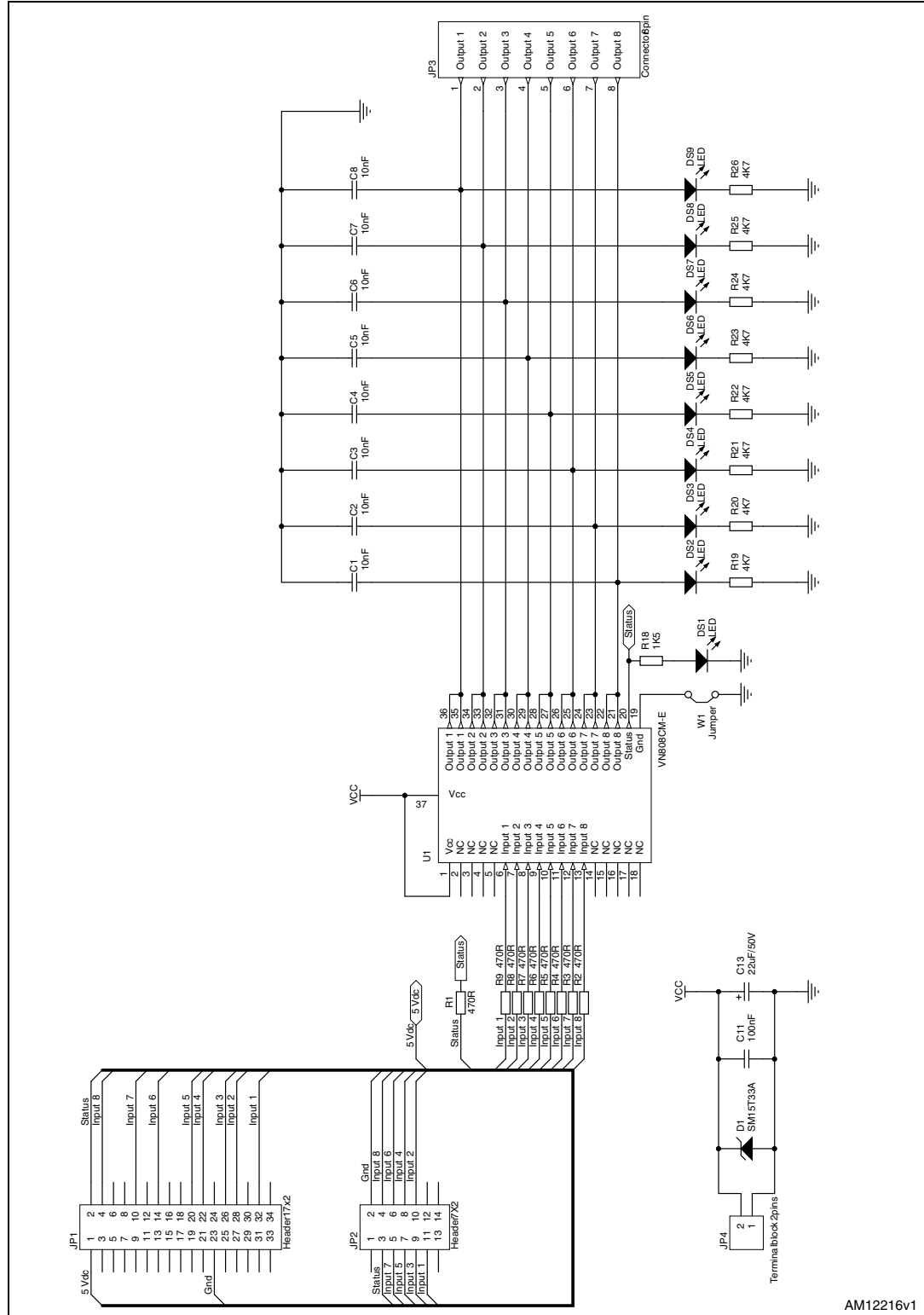
The STEVAL-IFP001V1 is compliant with international electromagnetic compatibility (EMC) specifications as well as EMC immunity proof 4 kV level EFT (IEC 61000-4-4), and 2 kV voltage surge (IEC 61000-4-5), and has been tested at different typical ambient temperatures. It is suitable for use in programmable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



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

# 1 Schematic diagram

Figure 1. Schematic diagram



AM12216v1

## 2 Revision history

**Table 1. Revision history**

<b>Date</b>	<b>Revision</b>	<b>Changes</b>
02-Oct-2006	1	First issue
01-Jun-2012	2	<ul style="list-style-type: none"><li>– Changed photo on the coverpage</li><li>– Minor text changes</li></ul>

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