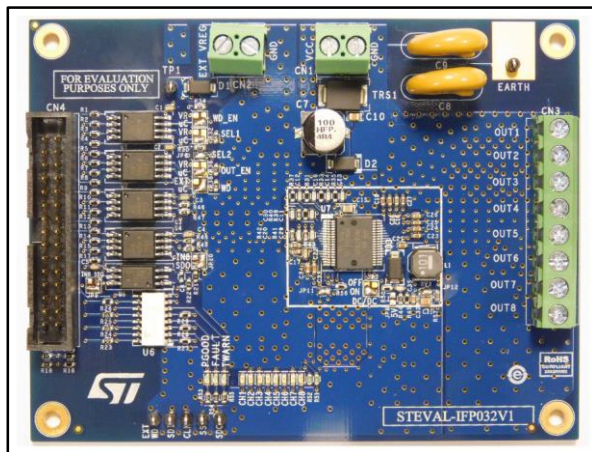


## Eight-channel high-side driver based on the VNI8200XP-32

Data brief



### Features

- Operating voltage: from 10.5 to 33 V
- Operating current: 1.2 A for each channel
- Reverse polarity protection
- High-speed opto-isolation for SPI and parallel communication
- Low-speed opto-isolation for device fault signaling
- Step-down converter for 3.3 V or 5 V
- Digital supply voltage
- LED matrix for channel status signaling
- Microcontroller interface
- Designed to meet EMC standard requirements: IEC 61000-4-2, IEC 61000-4-4, IEC 61000-4-5
- RoHS compliant

### Description

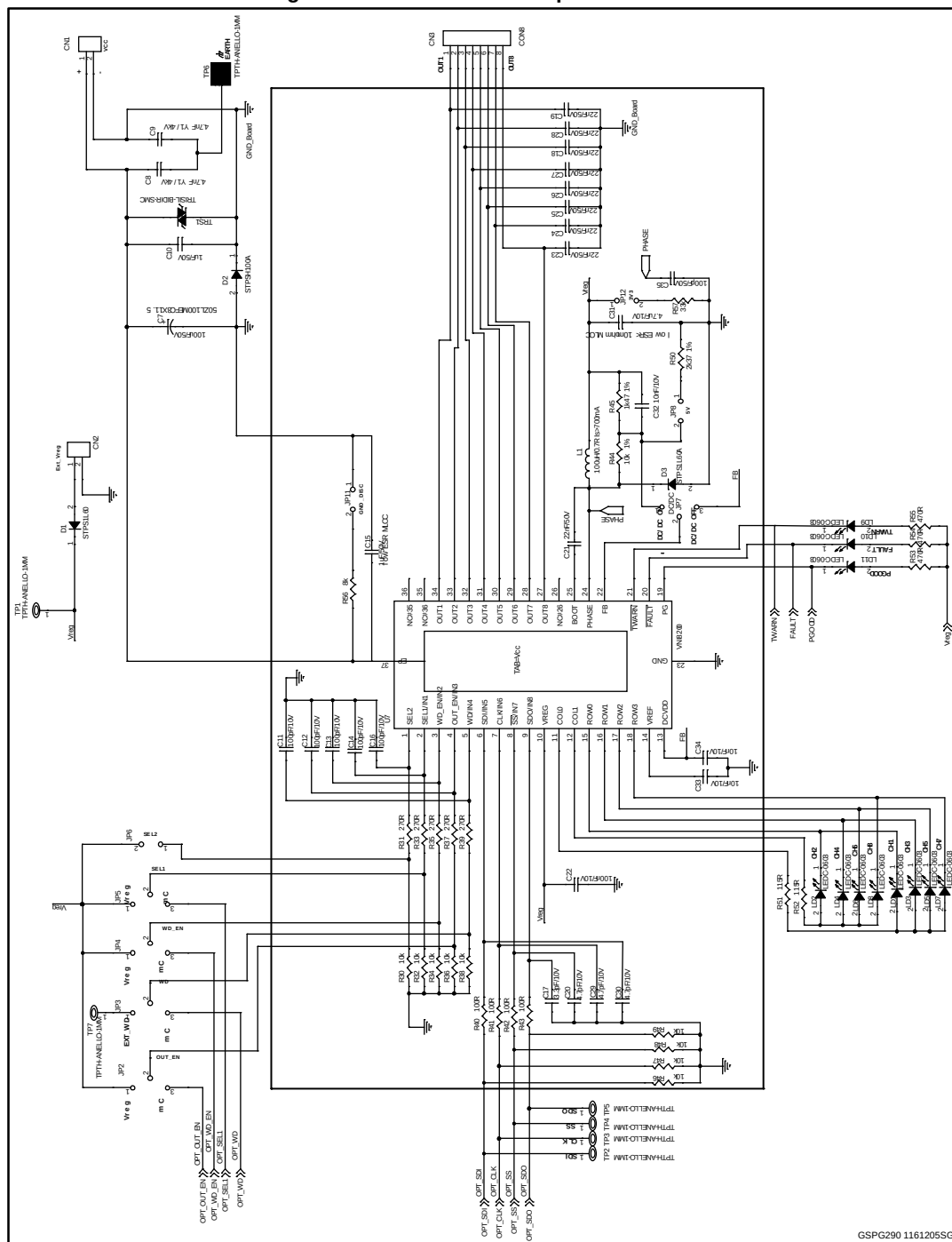
The STEVAL-IFP032V1 evaluation board, based on the VNI8200XP-32 high-side driver, is intended for device testing in terms of power management and digital interface.

In adherence with industrial standards, the board's isolated interface between the IPS and host controller are implemented using high-speed opto-couplers for IPS driving, and low-speed opto-couplers to receive device status information. Connection is achieved through a 30-pin connector.

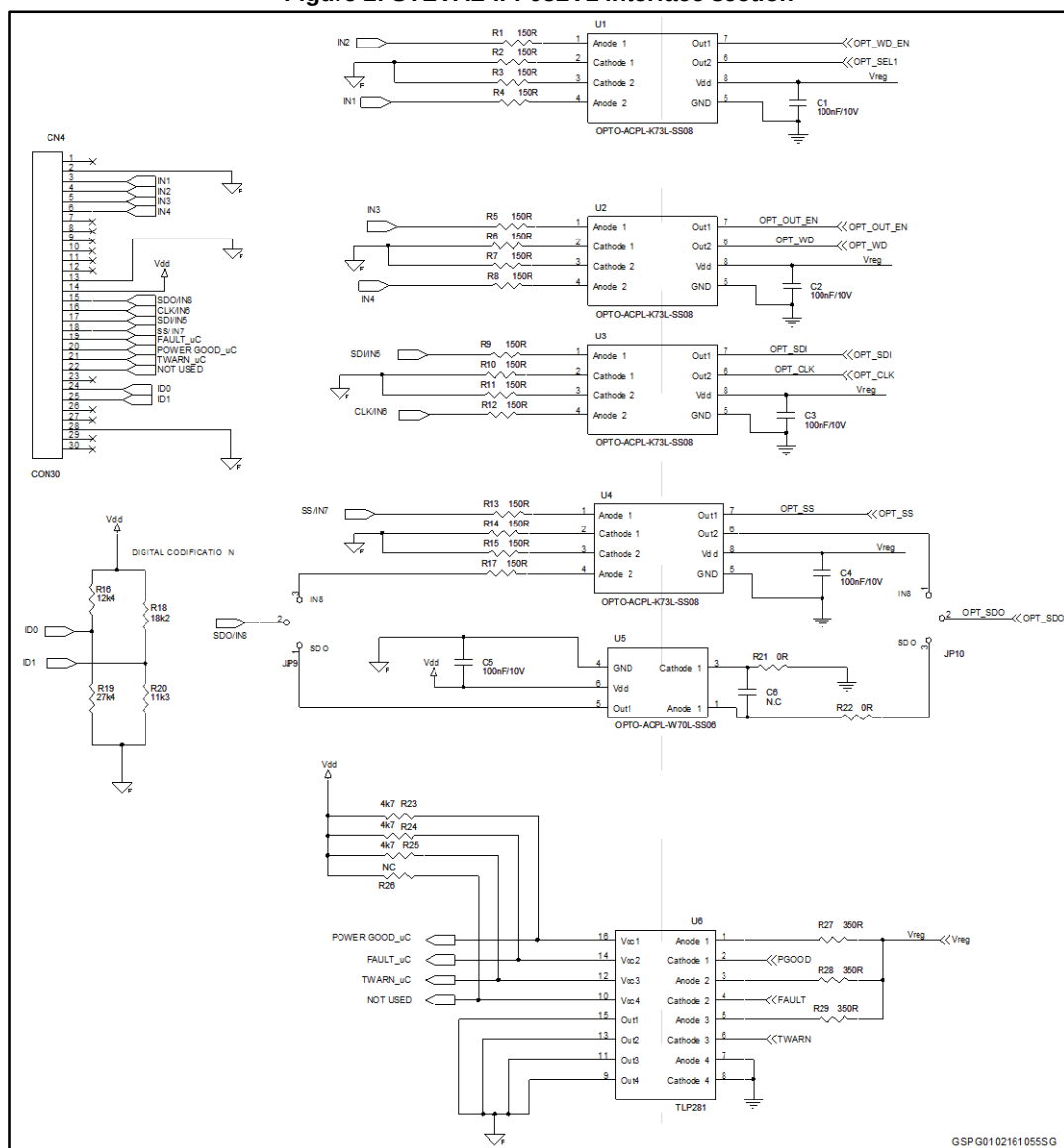
A GUI interface provides a user-friendly way to test VNI8200XP-32 device functionality, after connecting the STEVAL-IFP032V1 evaluation board to a PC via a communication board (part number STEVAL-PCC009V2).

Thermal performance is improved thanks to a four-layer design with copper regions distributed across all the layers for more effective heat dissipation. The STEVAL-IFP032V1 evaluation board meets EFT standard requirements IEC 61000-4-2, IEC 61000-4-4, IEC 61000-4-5.

**Figure 1: STEVAL-IFP032V1 power section**



**Figure 2: STEVAL-IFP032V1 interface section**



## 2 Revision history

Table 1: Document revision history

| Date        | Version | Changes          |
|-------------|---------|------------------|
| 02-Feb-2016 | 1       | Initial release. |

**IMPORTANT NOTICE – PLEASE READ CAREFULLY**

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2016 STMicroelectronics – All rights reserved