

ITS42008-SB-D

Industrial 8-channel PROFET Application Board
User's Manual



ITS42008-SB-D Application Board User Guide



The **ITS42008-SB-D Application Board** allows a fast and simple evaluation of the ITS42008-SB-D 8-channel protected High Side Switch (PROFET) under application-like conditions.

The Application Board provides

Control Input Interface:

- › Parallel 8-channel „Plug“-connector Input Interface (1k Ω protection series resistor on each input)
- › Optional V_{CC} -plug connector for external control input voltages for all channels that can be manually controlled per channel via DIP-switch on PCB
- › Optional 5V-voltage regulator supply (LDO) providing 5V logic levels for input pins (can be as well controlled channel resolved via DIP-switch on PCB)
- › A switch to configure the IC between „full-rail V_S referenced input levels“ or „5V logic input levels“ (grounding)
- › Test points for oscilloscope probes for each input

Two Output-pin interface connector types:

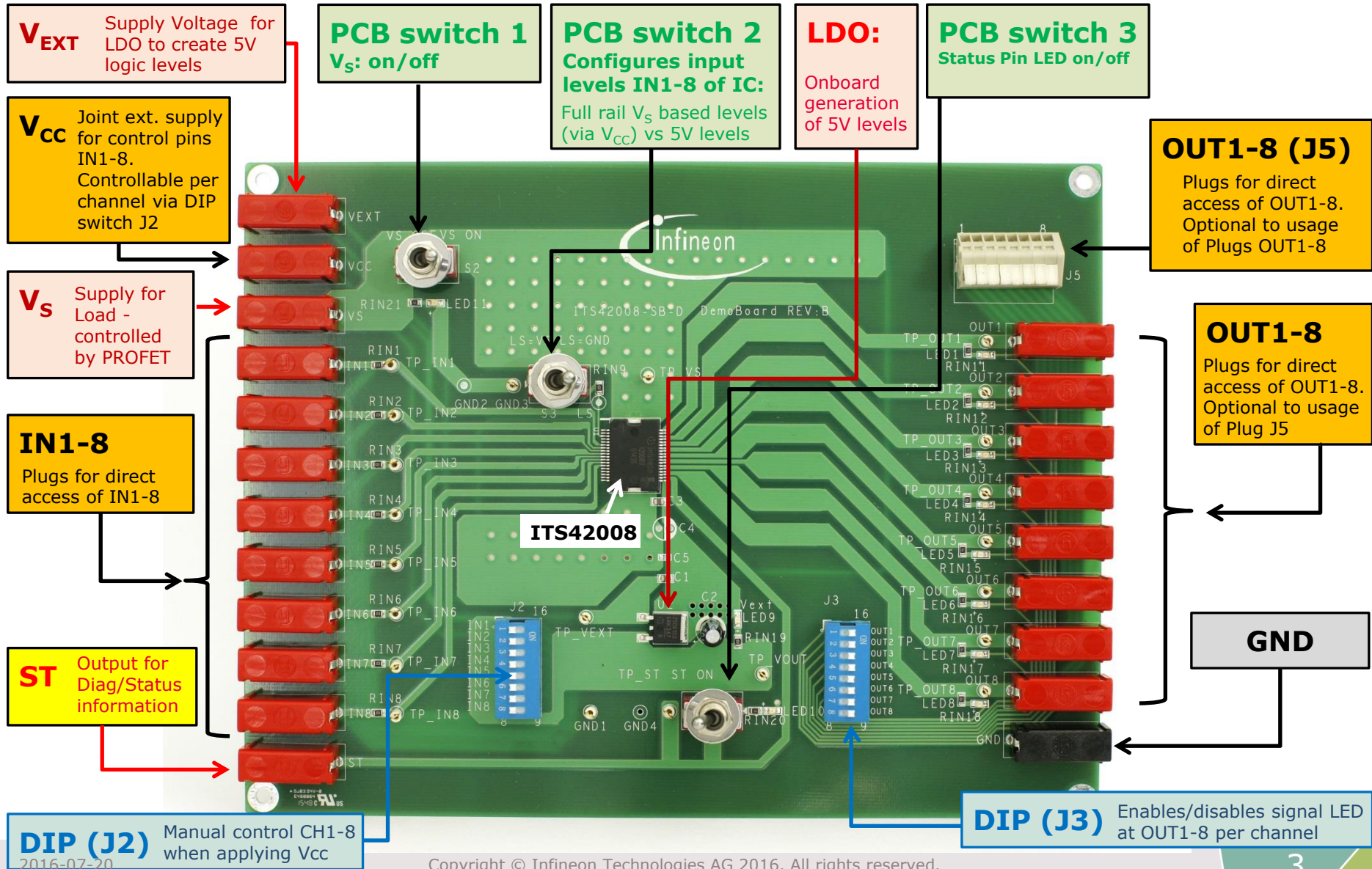
- › Channel resolved for plugs and channel resolved for wire attach
- › 1 LED per output that can be individually disabled via DIP-switch
- › Test points for oscilloscope probes for each output

Switch to enable/disable LED and pulldown resistor at Status pin

Switch to control external V_S supply (on/off)

Additional test points for V_S , V_{OUT} (of onboard LDO), GND, etc.

ITS42008-SB-D Application Board Board Overview

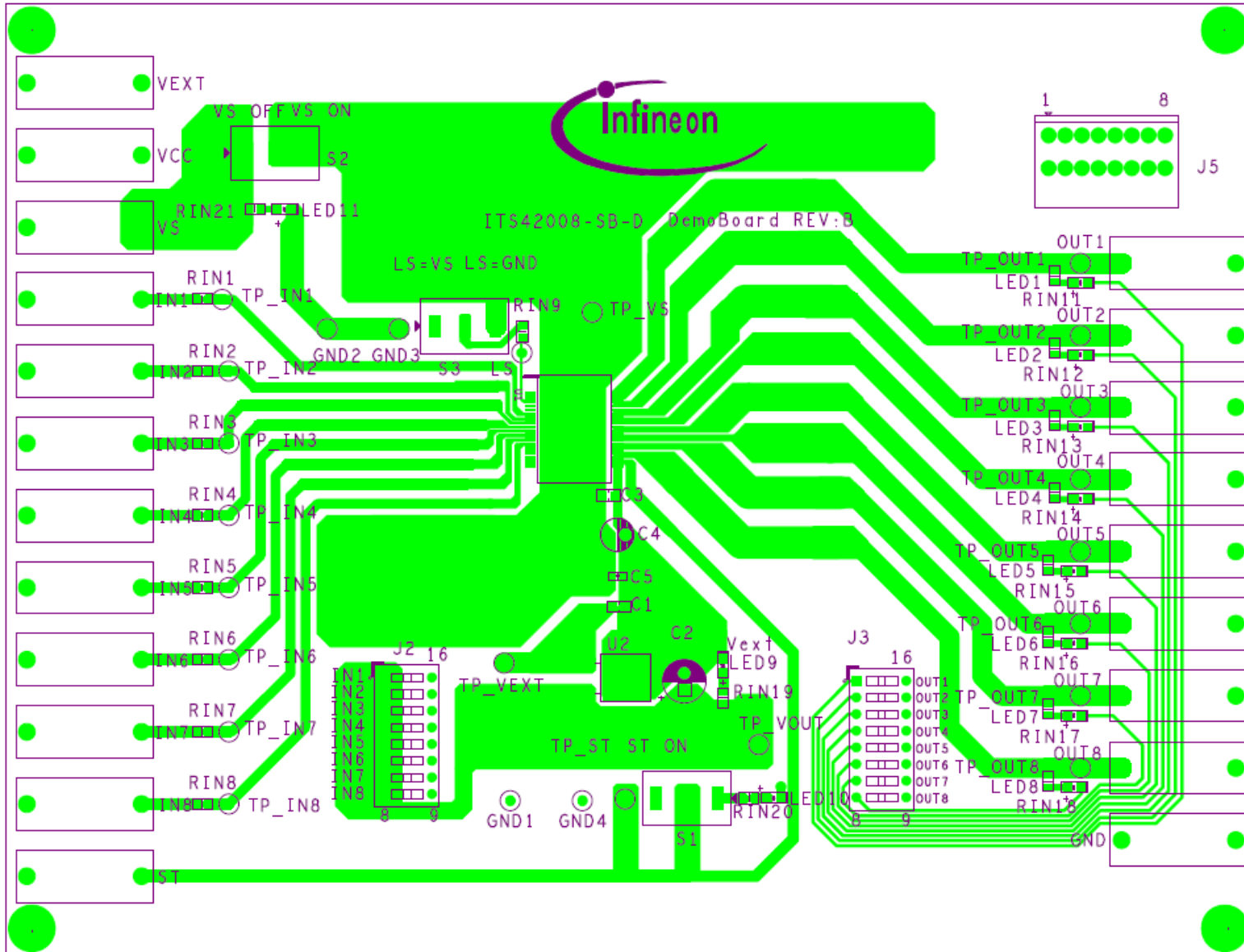


ITS42008-SB-D Application Board Quickstart Guide

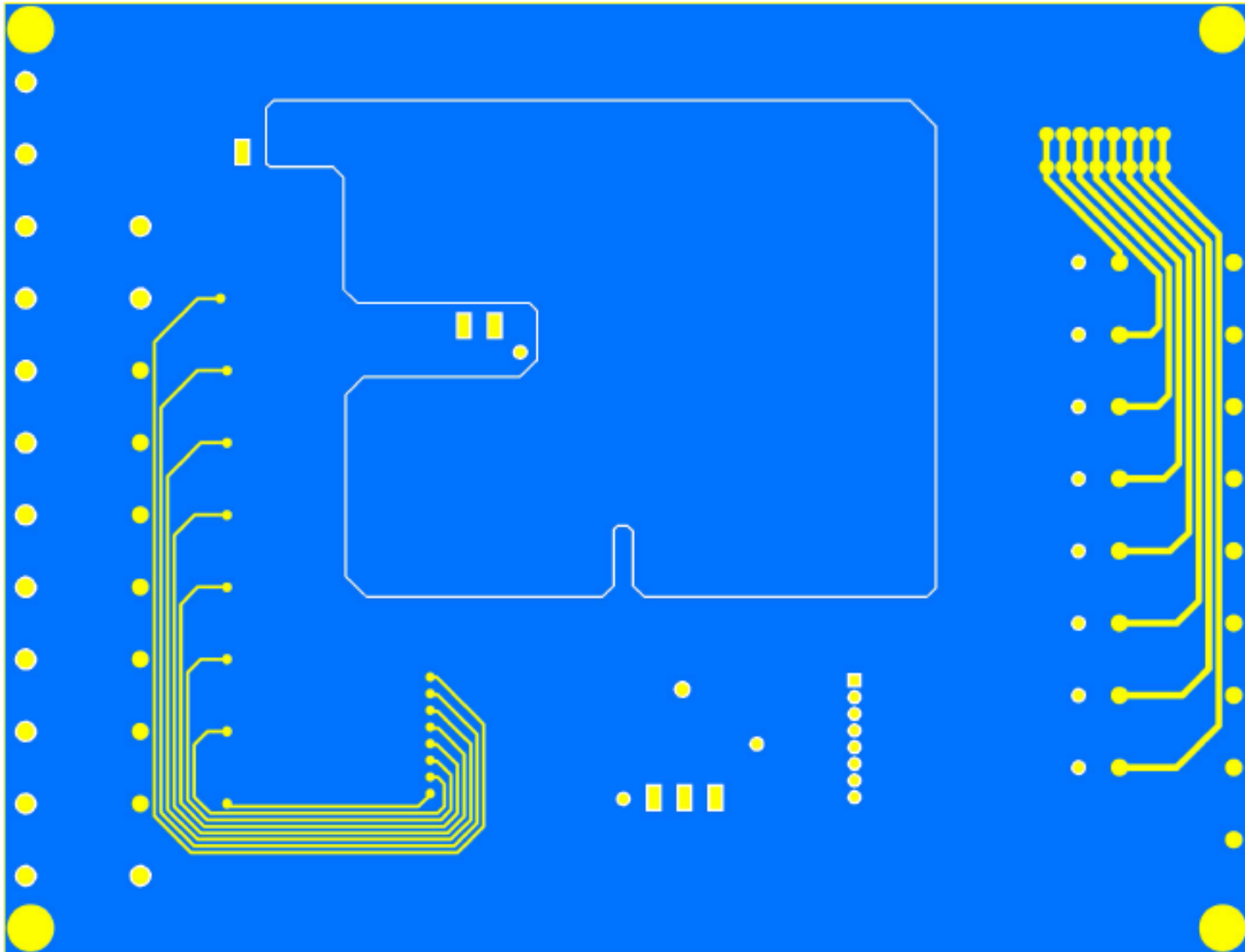


1. Connect GND
2. Connect Input signals that control the PROFET channels (switch channels on/off):
 - For usage of 8 individual external input signals to control the PROFET channels:
 - connect the corresponding signals to the plugs of IN1-8.
 - Set PCB-switch Nr.2 according to whether full rail V_S level control logic or 5V control logic is applied.
 - For usage of one common external input signal (V_{CC}) to control PROFET channels:
 - Connect external input signal to V_{CC}
 - Set PCB-switch Nr.2 according to whether full V_S level control logic or 5V control logic is applied on V_{CC} .
 - Individual channels can now be switched manually with DIP-switch J2
 - For usage with on-board generated 5V levels by LDO:
 - Connect supply voltage for LDO to Vext. One may also use V_S for feeding the LDO – in this case connect V_S to Vext.
 - Set PCB-switch Nr.2 according to usage of 5V logic.
3. Configure PCB-Switch Nr.3 according to whether Status-pin LED should be enabled or not.
4. Configure via DIP-Switch J3 to whether the signal LEDs of output channel OUT1-8 shall be enabled or disabled.
5. Attach the desired load to the output OUT1-8 of channel 1-8. One may use either of the two provided connector types according to the user's convenience.
6. Connect supply voltage to V_S and start measurements. PCB-switch Nr.1 can be used to hard switch V_S on board.

ITS42008-SB-D Application Board Top Layer



ITS42008-SB-D Application Board Bottom Layer



ITS42008-SB-D Application Board Order Information



| Type | SP# | OPN |
|---------------------------|--------------------|-------------------------------|
| DEMOBOARD ITS42008 | SP001435398 | DEMOBOARDITS42008TOBO1 |

Edition 2016-07-07
Published by
Infineon Technologies AG
81726 Munich, Germany

© Infineon Technologies AG
All Rights Reserved.

Legal Disclaimer

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

Information

For further information on technology, delivery terms and conditions and prices, please contact the nearest Infineon Technologies Office (www.infineon.com).

Warnings

Due to technical requirements, components may contain dangerous substances. For information on the types in question, please contact the nearest Infineon Technologies Office.

The Infineon Technologies component described in this document may be used in life-support devices or systems and/or automotive, aviation and aerospace applications or systems only with the express written approval of Infineon Technologies, if a failure of such components can reasonably be expected to cause the failure of that life-support automotive, aviation and aerospace device or system or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.



Part of your life. Part of tomorrow.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Power Management IC Development Tools](#) category:

Click to view products by [Infineon](#) manufacturer:

Other Similar products are found below :

[EVB-EP5348UI](#) [MIC23451-AAAYFL EV](#) [MIC5281YMME EV](#) [124352-HMC860LP3E](#) [DA9063-EVAL](#) [ADP122-3.3-EVALZ](#) [ADP130-0.8-EVALZ](#) [ADP130-1.8-EVALZ](#) [ADP1740-1.5-EVALZ](#) [ADP1870-0.3-EVALZ](#) [ADP1874-0.3-EVALZ](#) [ADP199CB-EVALZ](#) [ADP2102-1.25-EVALZ](#) [ADP2102-1.875EVALZ](#) [ADP2102-1.8-EVALZ](#) [ADP2102-2-EVALZ](#) [ADP2102-3-EVALZ](#) [ADP2102-4-EVALZ](#) [AS3606-DB](#) [BQ25010EVM](#) [BQ3055EVM](#) [ISLUSBI2CKIT1Z](#) [LM2734YEVAL](#) [LP38512TS-1.8EV](#) [EVAL-ADM1186-1MBZ](#) [EVAL-ADM1186-2MBZ](#) [ADP122UJZ-REDYKIT](#) [ADP166Z-REDYKIT](#) [ADP170-1.8-EVALZ](#) [ADP171-EVALZ](#) [ADP1853-EVALZ](#) [ADP1873-0.3-EVALZ](#) [ADP198CP-EVALZ](#) [ADP2102-1.0-EVALZ](#) [ADP2102-1-EVALZ](#) [ADP2107-1.8-EVALZ](#) [ADP5020CP-EVALZ](#) [CC-ACC-DBMX-51](#) [ATPL230A-EK](#) [MIC23250-S4YMT EV](#) [MIC26603YJL EV](#) [MIC33050-SYHL EV](#) [TPS60100EVM-131](#) [TPS65010EVM-230](#) [TPS71933-28EVM-213](#) [TPS72728YFFEVM-407](#) [TPS79318YEQEV](#) [UCC28810EVM-002](#) [XILINXPWR-083](#) [LMR22007YMINI-EVM](#)