Quickstart Guide for Inverter Evaluation Kit

Inverter Evaluation Kit for HybridPACK™ DSC CoolSiC™ G2 Power Modules

About this document

This application note is a Quickstart Guide for the inverter evaluation kits with the HybridPACK™ DSC CoolSiC™ G2 power modules. The inverter evaluation kit is available with latest SIC MOSFET chip technologies. An overview about the inverter evaluation kits, short description of most important interfaces and introduction of basic inverter operation is given.

Scope and purpose

The inverter evaluation kits were designed to support customers during their first steps in designing applications with the HybridPACK™ DSC CoolSiC™ G2 power modules, EiceDriver™ gate drivers and Aurix™ Microcontrollers. The inverter kits can provide a good starting point for project specific inverter developments. Furthermore, practical experience from the power module operation as well as the gate driver features and performance tests can be obtained in the lab at a minimum effort by using such evaluation tools. Before getting started it is mandatory to read and understand the safety warnings (section 1.1).

This document is based on the application notes for the AN-DSC-KIT-QUICKSTART [1].

Intended audience

Experienced engineers designing inverters with HybridPACK™ DSC CoolSiC™ G2.

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1 Introduction

The inverter evaluation kits for the HybridPACK™ DSC CoolSiC™ G2 power modules support engineers during their design-in activities. The kits use EiceDriver™ and gate drivers. The inverter kit has open design files, which makes it very convenient for evaluation purposes and cross reference tests.
Please read and understand the manual and following safety warnings in section 1.1.

1.1 Safety Warning for Evaluation Kit

The design operates with unprotected high voltages. Therefore, the Evaluation Tools may only be handled by persons with sufficient electrical engineering training and experience. The customer assumes all responsibility and liability for its correct handling and/or use of the Evaluation Kit and undertakes to indemnify and hold Infineon Technologies harmless from any third party claim in connection with or arising out of the use and/or handling of the Evaluation Kit by the customer.
The Evaluation Kit is a sample to be used by the customer solely for the purpose of evaluation and testing. It is not a commercialized product and shall not be used for series production. The Evaluation Kit is thus not intended to meet any automotive qualifications. Due to the purpose of the system, it is not subjected to the same procedures regarding Returned Material Analysis (RMA), Process Change Notification (PCN) and Product Withdraw (PWD) as regular products. See Legal Disclaimer and Warnings for further restrictions on Infineon Technologies warranty and liability.
European legislation in relation to inter alia the restriction of hazardous substances (RoHS), waste from electrical and electronic equipment (WEEE), electromagnetic compatibility, as well as duties to comply with CE, FCC or UL standards do not apply to the Evaluation Kit and the Evaluation Kit may not fulfill such requirements.

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Warnings Due to technical requirements, components may contain dangerous substances. For information on the types in question, please contact the nearest Infineon Technologies Office. Infineon Technologies components may be used in life-support devices 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 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.

1.2 Information Export Control Classification 3A225

Frequency changers (a.k.a. converters or inverters) and generators, that are usable as a variable frequency or fixed frequency motor drive and have all of the characteristics described below fall under the 3A225 classification.

Table 1 Export control relevant performance data of the evaluation kit

Question	Answer	Detailed Information
Multiphase output providing a power of 40VA or greater	YES	The inverter evaluation kit uses HybridPACK™ DSC CoolSiC™ G2 power modules, which can transfer power of several houndred kVA power. Typical application for this power module is up to 150kW traction inverters for electric vehicles.
Operating at a frequency of 600 Hz or more	YES	The evaluation kit does not limit the output frequency. Typical output frequency can be up to 0.1 times of the applied switching frequency. The evaluation kits are designed to operate with 10 up to 20kHz switching frequency (adjustable), which enables practical useable output frequencies of 2000 Hz easily.
Frequcy control better (less) than 0.2%	YES	The evaluation kit uses a digital control with Aurix™ Microcontroller. The Microcontroller clock is generated from a standard off-the-shelf crystal with a typical frequency tolerance of +/-15ppm at room temperature and additional +/-25ppm over the operating temperature.

1.3 Block Diagram

The following illustration show a simplified block diagram view of the inverter evaluation kit (shipping content) and the typical test bench setup.

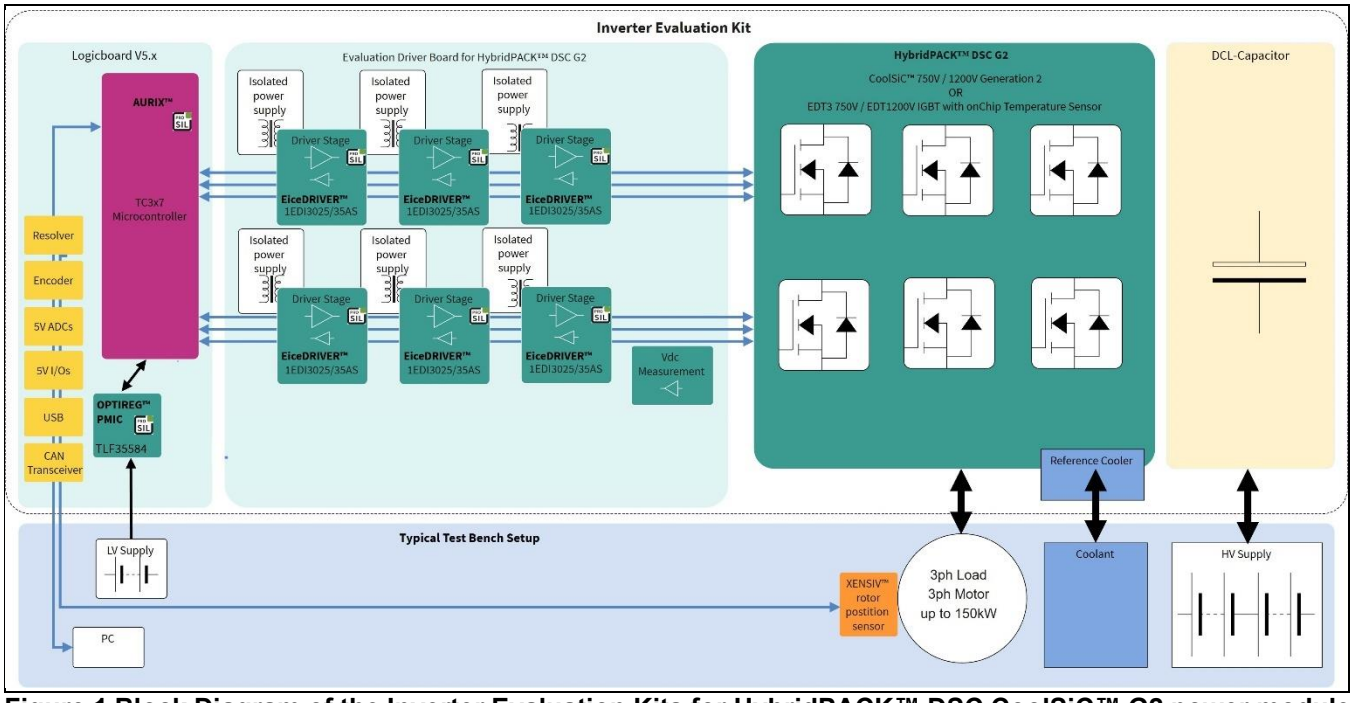

Figure 1 Block Diagram of the Inverter Evaluation Kits for HybridPACK™ DSC CoolSiC™ G2 power modules

2 Overview Evaluation Tools and Order Numbers

The inverter evaluation kits in Figure 2 comes with power module, cooler, DC-link capacitor, gate driver board, logicboard, pre-installed software, USB stick.

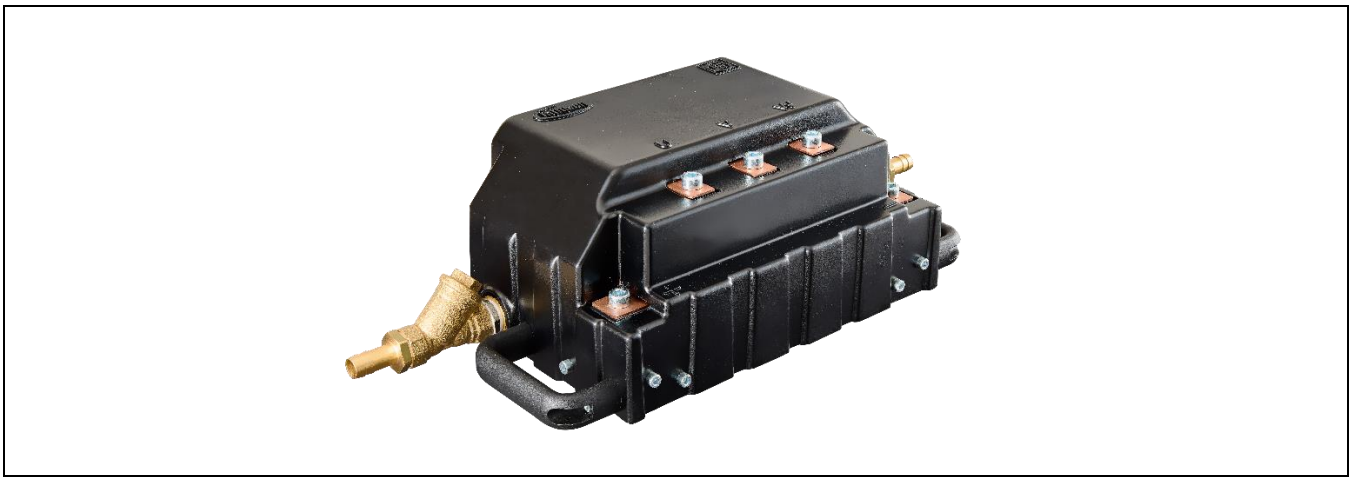

Figure 2 Inverter Evaluation Kits for HybridPACK™ DSC CoolSiC™ G2. Versions with latest SIC MOSFET chipsets at 1200V blocking capability are available. See also Table 2.

The inverter evaluation kits can be orderd at your local Infineon sales representative with the corresponding SP order number. A comprehensive type designation tree for HybridPACK™ power module evaluation tools can be found in section 2.1.

Table 2 Overview Inverter Evaluation Kits for HybridPACK™ DSC power modules

Type	Key Components	SP Order No	Order Name
Inverter Evaluation Kit with 700V/400A IGBT power module	Power Module FF400R07A01E3_S6 Gate Driver Board with 1EDI2010AS Logicboard with Aurix TC277	SP005427261	EV INV HP DSC SI FF400
Inverter Evaluation Kit with 1200V/6 mOhm SIC MOSFET power module	Power Module FF06MR12A04MA2 Gate Driver Board with 1EDI3035AS Logicboard with Aurix 2G TC3x7	SP006033299	EV INV HP DSC SIC FF06

2.1 Type designation tree for evaluation tools

The product order names of the evaluation tools were changed in Jan 2024 in order to support a comprehensive type designation tree for the available evaluation tools. The structure of the new naming is shown in the figure followed by some examples.

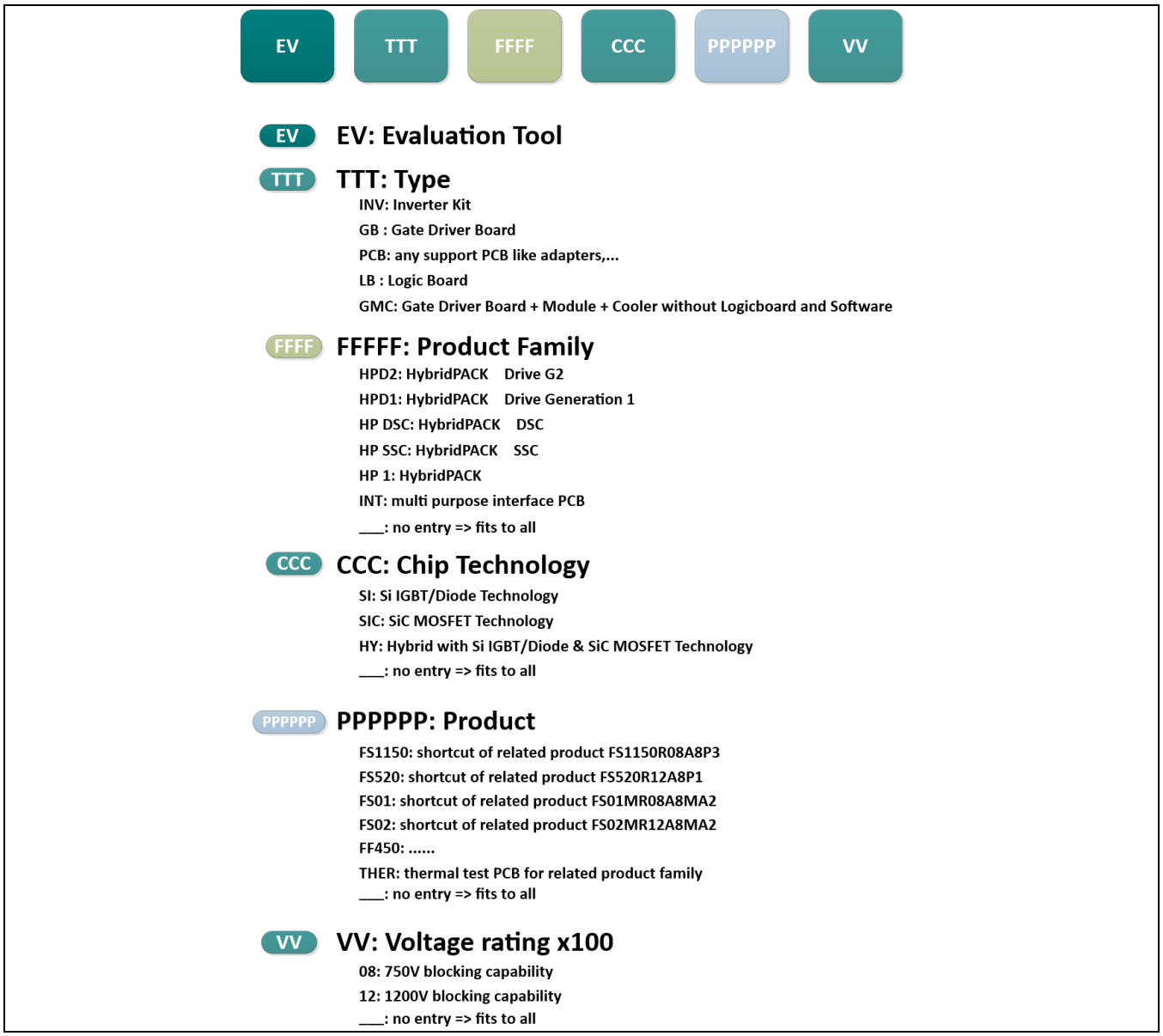

Figure 3 Type designation tree for the HybridPACK™ power module evaluation tools.

Some Examples:

EV INV HPD2 SI FS520 12: Inverter Evaluation Kit for HybridPACK™ Drive G2 Si 1200V Automotive Power Module FS520R12A7P1 and Swoboda Phase Current Sensor.

EV INV HPD2 SIC FS02 12: Inverter Evaluation Kit for HybridPACK™ Drive G2 SiC 1200V Automotive Power Module FS02MR12A8MA2 and Swoboda Phase Current Sensor.

EV GB HPD2 SIC: Evaluation Kit - Gate Drive board for HybridPACK™ Drive G2 750V & 1200V SIC power module with 1EDI3035AS gate driver.

EV GB HPD2 SI 08: Evaluation Kit - Gate Drive board for HybridPACK™ Drive G2 750V IGBT power module with 1EDI3025AS gate driver.

2.2 Recommended Lab Equipment

For evaluation following lab equipment is recommended:

- Low voltage power supply (within the shipping box or 14V, 2A supply.
- CAN card. Recommended “Peak CAN USB” (PCAN USB opto) [4].
- High Voltage power supply (see section 2.3)
- Oscilloscope & Current Probes depending on loads

2.3 Recommended Operating Conditions

The following recommended operating conditions describe the targeted lab testing environment.
Testing beyond the given area may be possible in specific cases when all individual parts are driven within their specification. On the other hand, the evaluation kit with logic, gate driver board together with the power module should not be regarded as a protected system. It is not a considered product for end customers. The intention of the evaluation kit is to support engineers in their first steps designing with the Infineon HybridPACK™ DSC CoolSiC™ G2 power module and EiceDriver™ gate drivers. Please see also the section 1.1 & 2.4 in order to understand the limitations.

Table 3 Operating Conditions

Type	Symb	Min	Typ	Max	Conditions
12V Logic Board Supply	12V_IN_LV	10 V	12 V 14 V	18 V	Power supply has to deliver up to 25W. Isolated power supply recommended to avoid GND loops with measurement equipment
HV Working Voltage (Capacitor DC-Link Voltage)	VDClink_HV	0 V		500 V (for 750 V chipsets) 850 V (for 1200 V chipsets)	For double pulse tests <250mA For inductive dummy loads typ up to 30kW (depending on load tests) For inverter operation up to 150kW (depending on load tests)
Interfaces Logicboard and Gate Driver Board	$V_{interfaces}$	0 V	0..5 V	5 V	All interfaces like PWM, Enable, Sensor output, etc is 5V logic. Apply higher voltages only to pins which are specified explicitly other.
Ambient Temperature	T_{amb}	-40°C		85°C	>65°C not recommended
Coolant Fluid Temperatuire	T_F	-40°C		85°C	Typical flowrate 10L/min with 50%/50% Water/Ethylenglycol
Switching frequency	f_{sw}		10 kHz	20 kHz	For short term operation >20kHz might be possible. Please apply appropriate cooling to the gate driver boards.

2.4 Limitations of the Evaluation Kit

The inverter evaluation kit was designed with some basic shutdown routines but due to the free parameter setting and undefined lab setup and environment it should not be regarded as a protected system. Most of the protection features can be disabled by the user (e.g. set limit to 1000°C instead of 175°C), which makes tests also under extreme abnormal conditions possible. The evaluation kit is not protected against:

- Over- & undervoltages on the signal connectors.
- Overvoltages of the 12V Board Supply voltage.
- Overvoltages of the HV working voltage.
- Overtemperature of the PCB and module (e.g. operation will not stop without coolant fluid where Tvj=175°C can lead to damage of the power module).
- Testing at high switching frequencies may require an active cooling of the gate driver board especially at high ambient temperatures.
- For short circuit testing please see [3] for more detailed information.

Please note that the above list gives examples and should not be seen exhaustive.

2.5 Key Components List

Some of the key components are not in the focus of this manual. Nevertheless, besides the power module and gatedriver, other active and passive components can be tested/evaluated under real application conditions.

Table 4 Key components list

Part Number	Manufacturer	Description / Implementation
FF06MR12A04MA2 [5]	Infineon	HybridPACK™ **DSC S module** with SiC MOSFET and NTC (1200V / 190A)
1EDI3035AS	Infinoen	Automotive qualified single-channel high-voltage gate driver optimized for SiC MOSFET.
BSD235N	Infineon	N-Channel Small Signal MOSFET 20 V in SOT363 package
IRLMS1503TRPBF	Infineon	MOSFET N-CH 30V 3.2A MICRO6
B25654A8137K001 [6]	TDK	DC link capacitor Type C2 135uF_850V Lead terminal
B78308A2387A003 [7]	TDK	Audio Transformers / Signal Transformers 100uH 9pF 260mOhm 3000VAC AEC-Q200
MM_122078_000_000 [8]	Erwin Quarder Systemtechnik	Hybrid Plastic-Aluminum Cooler

3 Interface Descriptions

3.1 Interfaces Logic Board

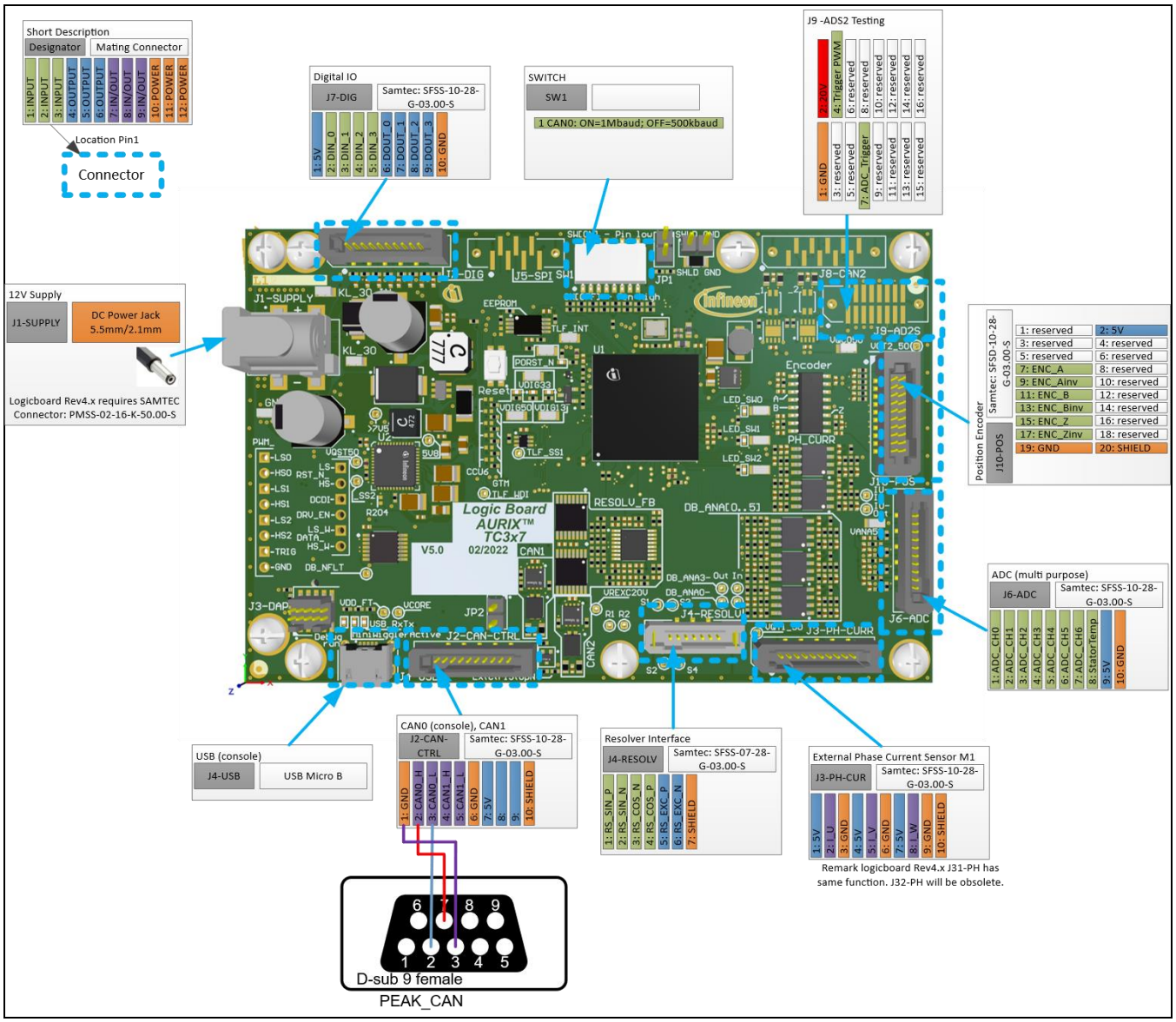

Figure 4 Connectors of Logicboard LB5.x.

3.2 Interfaces Gate Driver Boards

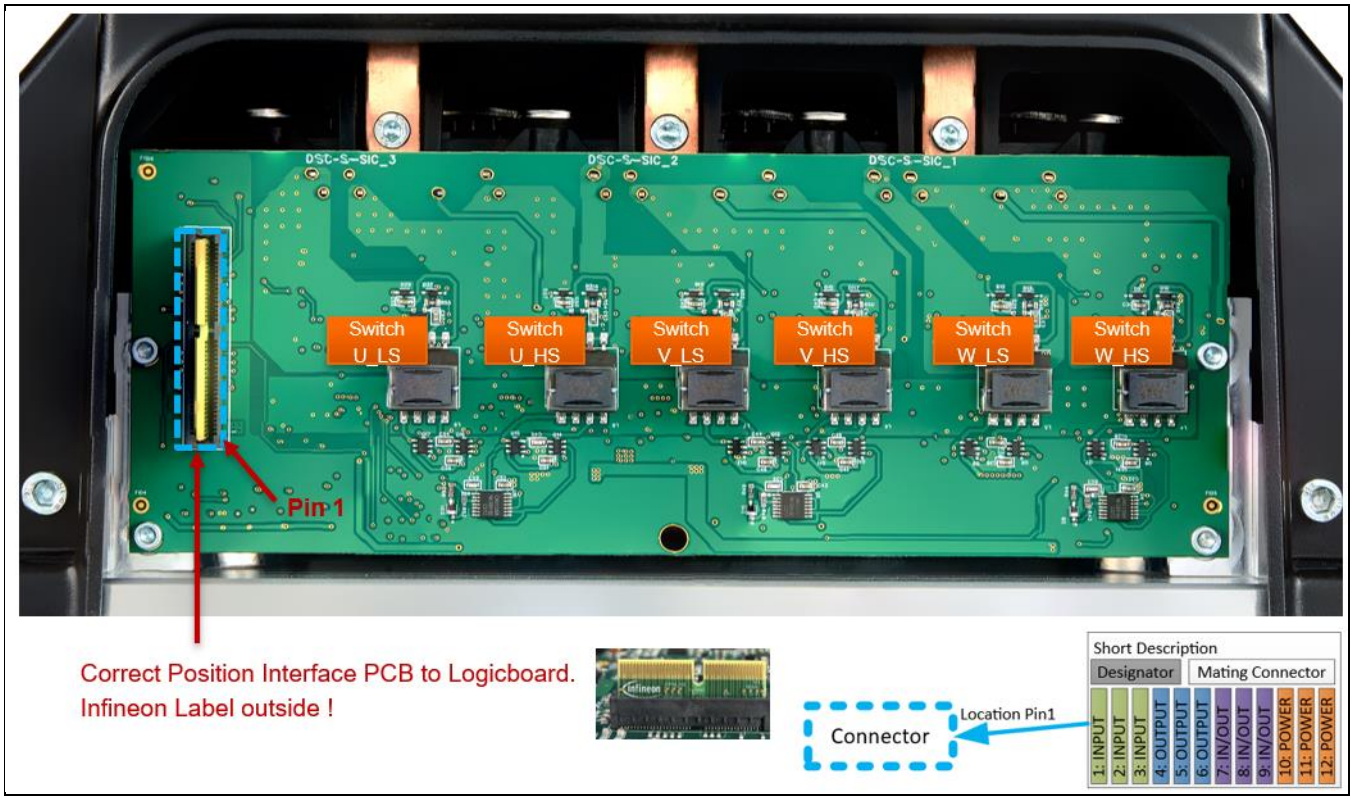

Figure 5 Connectors of Gate Driver Boards.

4 Quickstart Guide

This chapter provides a basic introduction to the most common use cases of lab testing. Please note that this evaluation kit is able to operate under high voltages and high currents and power electronics experienced staff is required for testing such parts.

4.1 Typical Setup for Inverter Load Tests

The typical setup for inverter load tests is shown in Figure 6. For light load tests and tests with mainly reactive power, the DC supply is normally suffient via the two center DC tabs only. The USB connection is recommended to be disconnected for load tests.

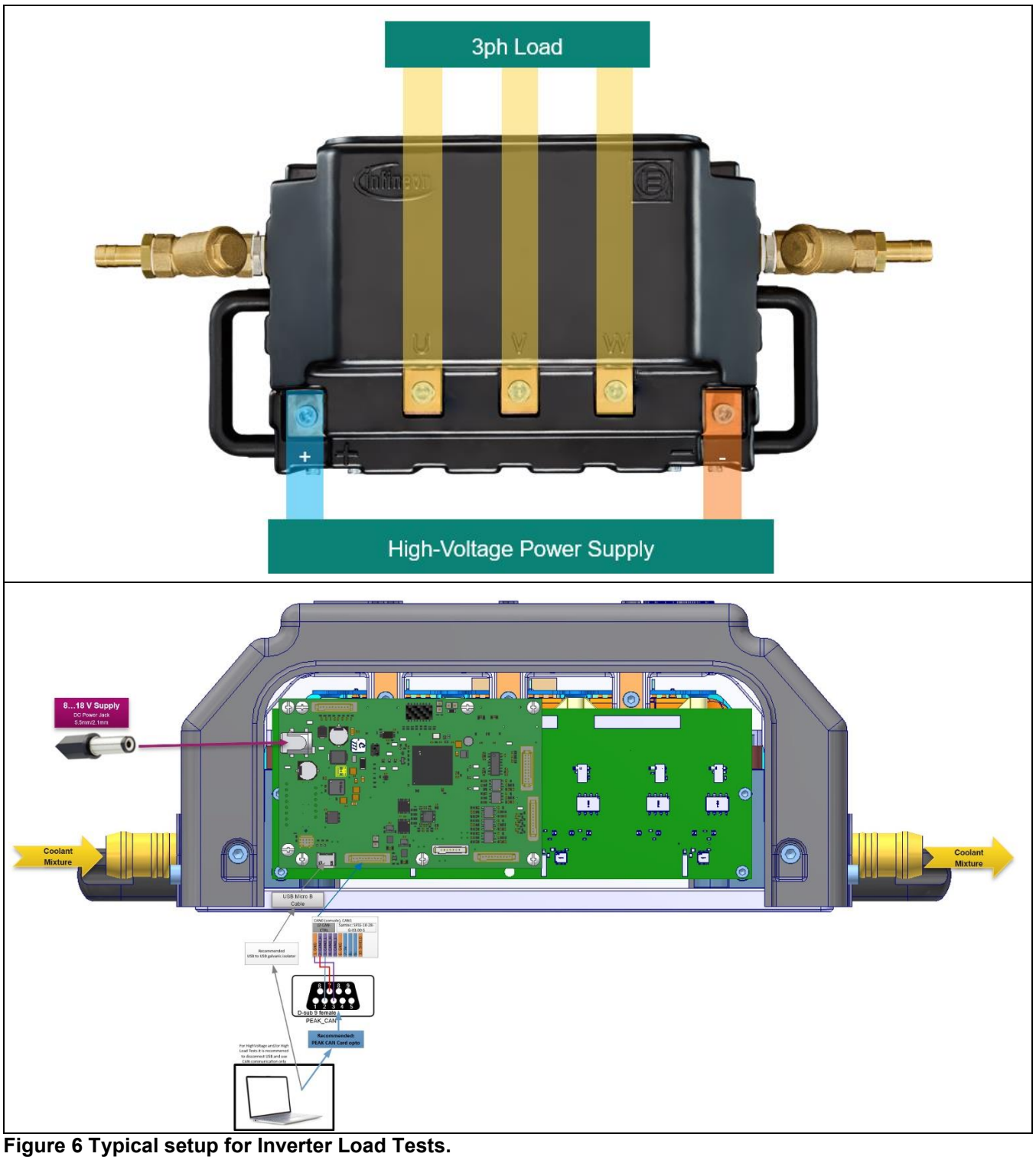

Figure 6 Typical setup for Inverter Load Tests.

4.2 DEMO Mode (Inverter Operation without Communication)

For enabling the DEMO-MODE following conditions are required:

1) Turn-off all supplies.
2) Connect supplies to the inverter evaluation kit (see section 4.1).
3) Place DEMO-ENABLE-PLUG (see Figure 7).
4) Place DEMO-CONTROL-PLUG (see Figure 7).
5) Turn potentiometers for modulation index and output frequency to low position.
   (i.e. pin 1 & pin2 are connected to GND; see Figure 7)
6) Turn-on logic board supply (8..18V). Within the next 3 seconds the inverter starts the operation.
7) Turn-on high voltage supply (respect the limits of the evaluation kit).
8) **The inverter is fully operating and can now be controlled by the potis or external analog 0...5V signals (modulation index and output frequency).**

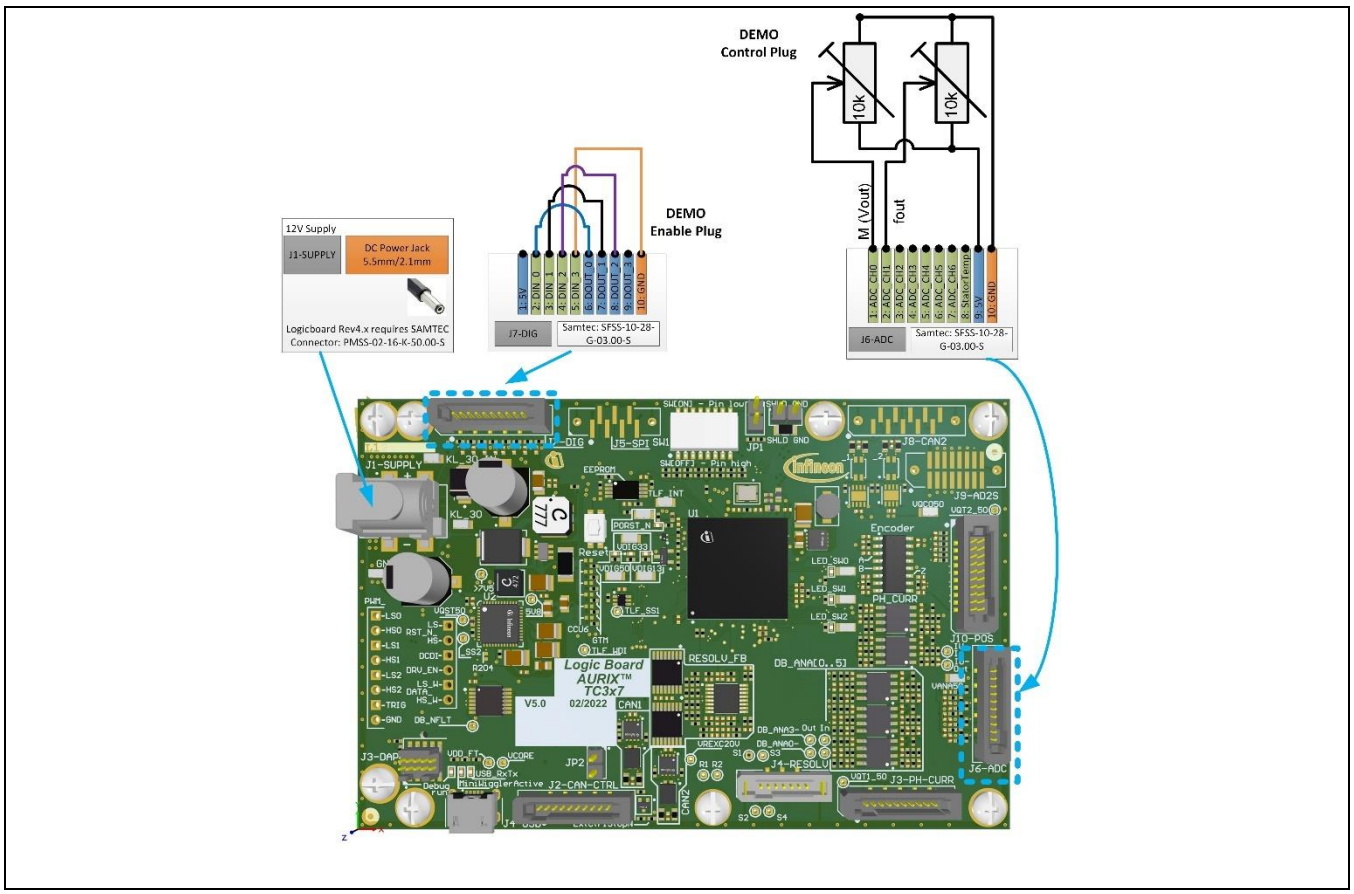

Figure 7 Connection to enable the DEMO-MODE in order to operate the inverter kit without communication in open loop operation.

Only the modulation index and the output frequency can be adjusted in the DEMO-MODE. All other parameters, like switching frequency, dead times, gate driver setting, etc. are set to pre-defined default values from the evaluation kit software. Thus, it should be clear that such default values should not be regarded as optimized parameters, but can be used as a system design starting point and would be compatible with most load and operating conditions.
The parameter values can be configured and non-volatile stored by usage of graphical user interface with ONEEYE tool and USB or CAN bus communication (see section 5.1).

4.2.1 DEMO Mode: Adjusting the Modulation Index

The modulation index can be adjusted by the analog 0..5V signal on pin 1 on the DEMO-CONTROL-PLUG. At the beginning this signal must be low, otherwise the PWM will not be enabled. Then the signal can be adjusted between 0 and 5V and the modulation index of the space vector modulation follows linear from 0% and 100%. In order to ensure a smooth operation a simple ramp-up and ramp-down function is implemented as it can be seen in Figure 8.
At Figure 8 time 0ms the modulation set value is adjusted rapidly from 0V to 5V. The internal ramp function limits the speed and controls the modulation index within 4 seconds from 0% to 100%. In the zoom pictures the resulting phase to phase output voltage at 400V dc working voltage can be seen. At about 3.5 seconds it can be seen, that the space vector modulation comes in the so called overmodulation range resulting in a slight trapeziodial waveform. Not shown but similar would be a ramp down event.

In summary, the operator can adjust the phase to phase output voltage by the modulation index within the limits of the applied working voltage (i.e. DC-Link voltage). By adjusting the output voltage, the currents are also changed depending on the impedance of the load.

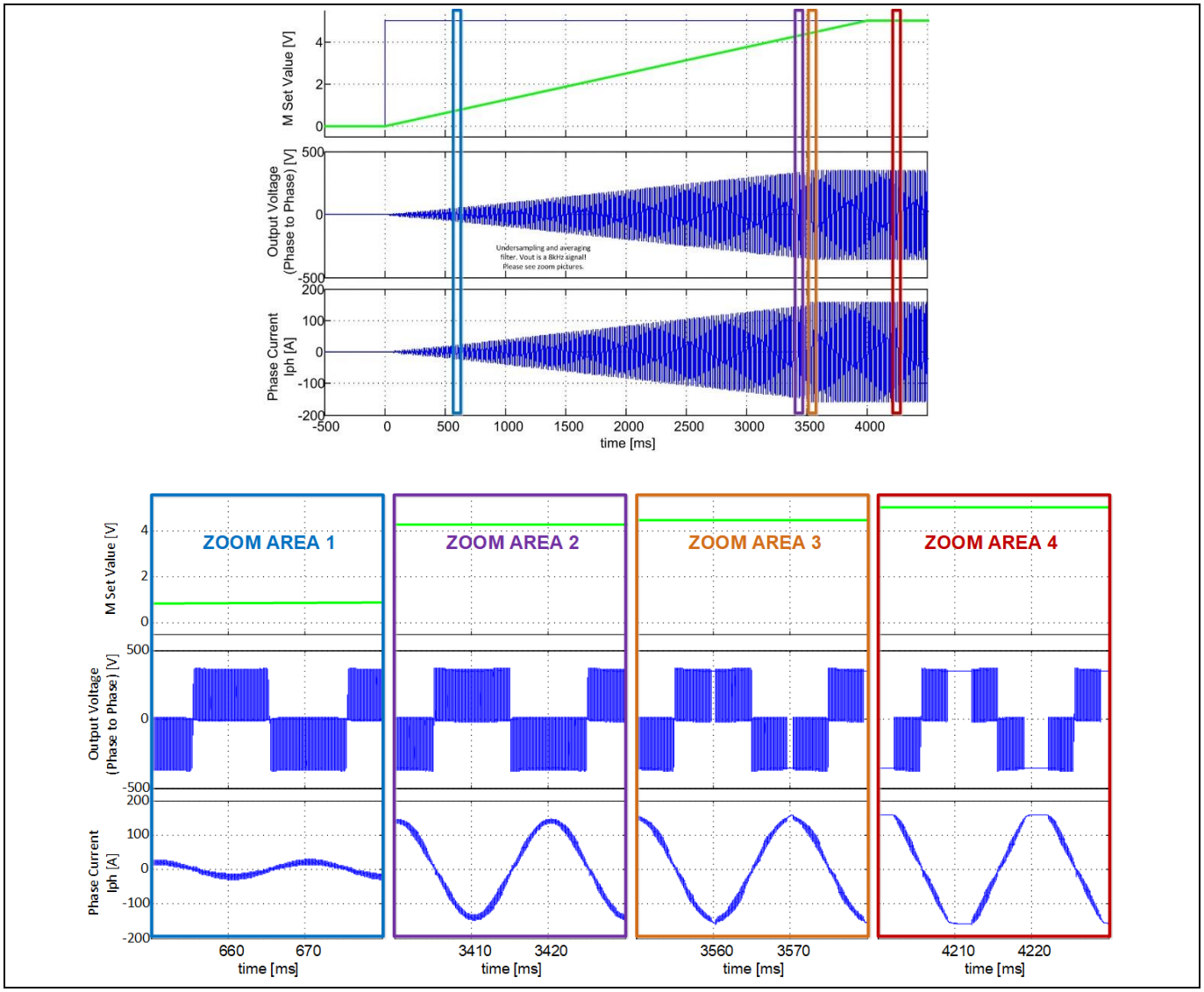

Figure 8 Measured event, where operator changes the modulation set value rapidly from 0V to 5V. The internal ramp function ensures a smooth transition from 0% to 100% modulation index. The modulated phase to phase output voltage is consequently increased within the limits of the applied system working voltage.

4.2.2 DEMO Mode: Adjusting the Output Frequency

The output frequency can be adjusted in similar way as the modulation index. A real example is shown in Figure 9. The 0..5V voltage signal on pin 2 of the DEMO-CONTROL-PLUG sets the output frequency to the load. A ramp function also ensures a smooth transition when a new setpoint is applied (see smooth actual fout value in green). The frequency is ramped within 10 seconds from nearly 0Hz to 100Hz, which are the pre-defined standard values in the software.

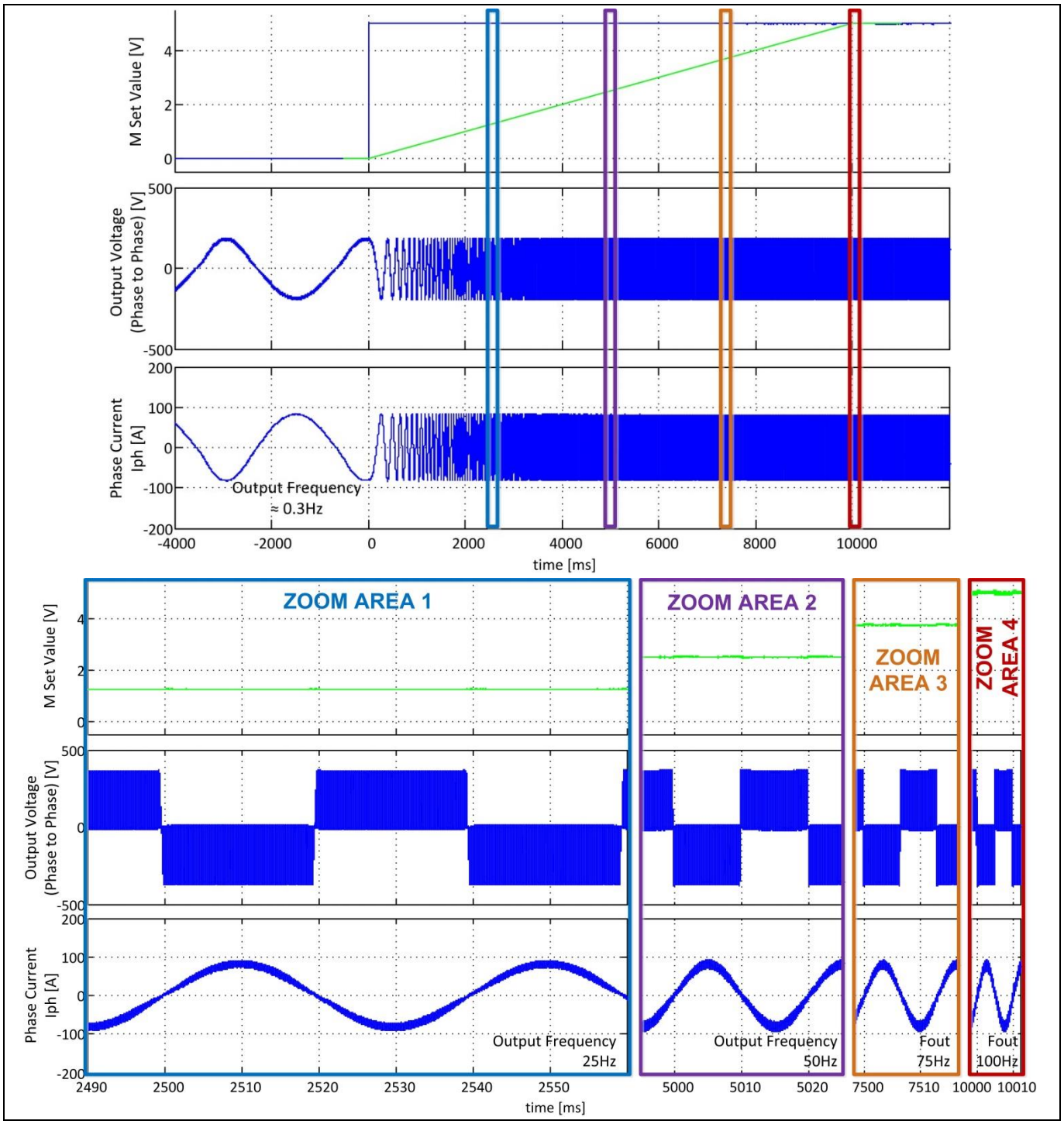

Figure 9 Measured event, where operator changes the output frequency set value rapidly from 0V to 5V. The internal ramp function ensures a smooth transition from nearly 0Hz to 100Hz output.

4.3 Inverter Tests (Introduction Open Loop mode)

The easiest way to start with the 1st tests requires:

- Latest OneEye Tool (can be downloaded from the Infineon website under the developer center launcher application)
- OneEye GUI configuration file for the inverter evaluation kit (see USB stick of the shipping content)
- Power supply (8..18V) for the logicboard
- Peak CAN card recommended (USB does not support to monitor the status of the evaluation kit)

If CAN connection is ready, it is very simple to start inverter open loop operation. After booting the evalkit, the device is in configuration mode.

1. You can exit the configuration status by clicking **Exit Configuration**. The status page already shows the measured values.
2. Select now the **Open Loop Mode**
3. You can now click the **Run** button
4. Finally, you can adjust the **Amplitude** (Modulation Index) and the **Speed** (in rpm or in Hz output frequency)

The GUI bring a basic CAN datalogger as well as a software scope function. With the software scope function, it is possible to measure the most relevant paramaters synchronous to the PWM pattern. The data can be saved also

4.4 Inverter Kit Parameter Adjustment

The OneEye GUI brings already a very convenient tool for adjusting parameters of the evaluation kit. Parameters can be read at any time. Please note that most parameters can be adjusted any time but save to ECU is only possible in configuration mode (entered after BOOT, or stop operation and click shutdown and save than the parameters). After the next startup the new parameters will be used for the operation.

You can easily ajust the PWM frequence, deadtime, overvoltage shutdown level, sensor gains etc.
Please note that the part is for evaluation purpose only. The SW will not check if the applied parameters can damage the evaluation kit. It was explicitly desiged with minium protection mechanism in order to make it possible to test the devices to their limits or even beyond their limits.

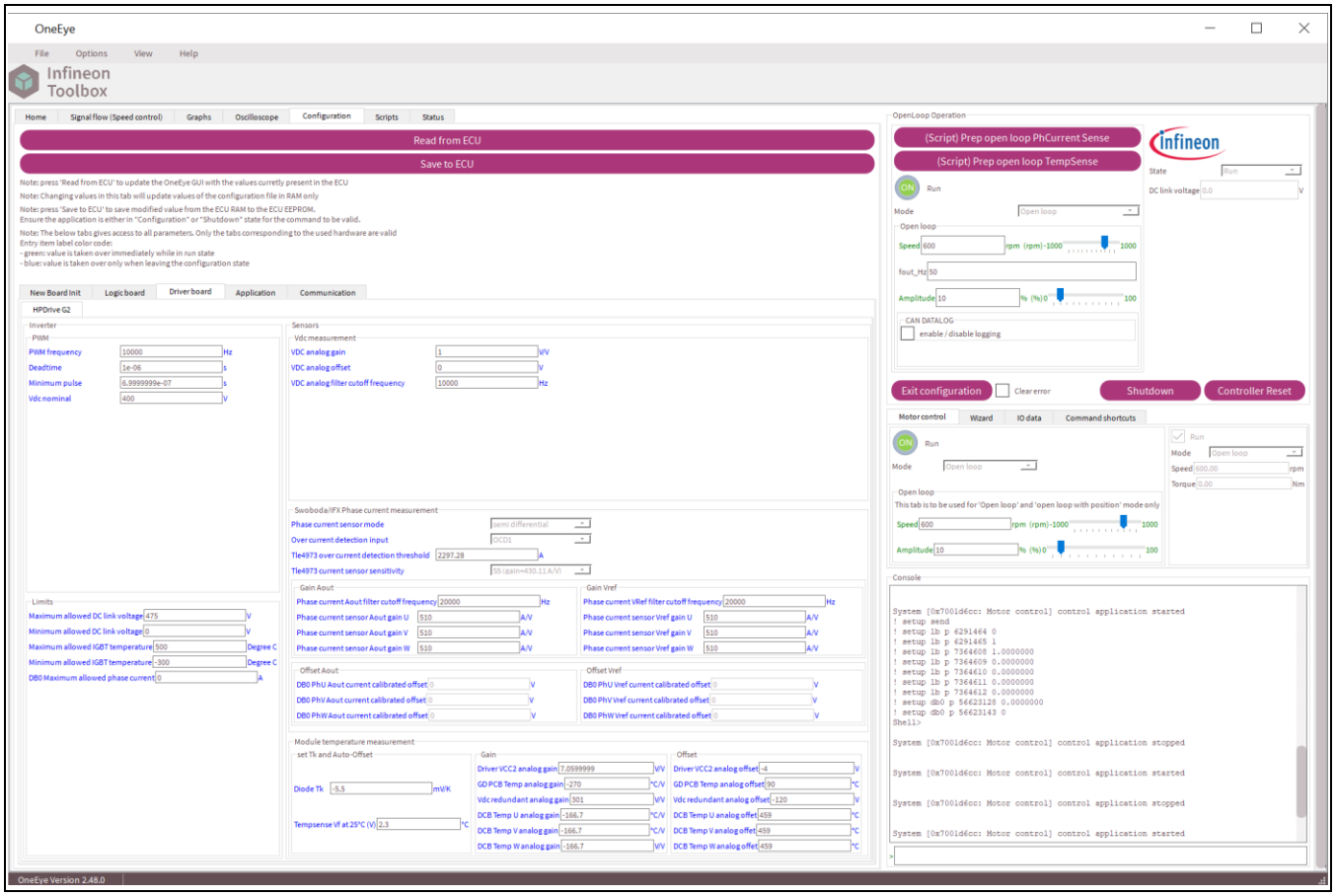

Figure 10 OneEye GUI for adjusting parameters of the evaluation kit.

5 Trouble Shooting and further detailed Information

In case of problems we recommend to use communication to see the SHELL report if any errors are reported by the inverter kit. A next step can be flashing new software and apply initial paramerters again. The information for these steps can be found in the following sections.

5.1 Communication with the Evaluation Kit

The inverter evaluation kit has two options for the communction: and USB serial communication and CAN bus communication. In case of operation under high voltage it is highly recommended to use isolated communication (like opto isolated CAN card or opto isolated USB/USB connectors). For operation under high load and high voltages it is known that USB serial connection might fail. CAN bus communication is always the more stable and recommended option.

5.1.1 USB serial Communication

The evaluation kit logicboard can be connected by USB mini cable to the PC. Please ensure that the virtual COM port drivers of the FDTI chipset is installed at your computer. The FDTI drivers will be automatically installed with the Infineon MEMTool. Latest drivers or in case of problems the device drivers can be installed from the manufacturer website: https://ftdichip.com/drivers/vcp-drivers/

After physical connection and power up the logicboard the connection can be established by the Infineon ONEEYE tool (see GUI file prepared for USB) or any available shell program like Tera Term, Putty, etc.

- Port: Typically the COM port with the highest number
- Speed: 115200 kbaud
- Data: 8 bit
- Parity: none
- Stop bits: 1 bit
- Flow control: none
- New-line Receive: CR+LF
- New-line Transmit: CR+LF
- Coding: UTF-8

Trouble Shooting Hint 1: In case of connection problems look at the device manager of your PC operating system. Check if the virtual COM port appears without error indication and reinstall the device drivers if not.

Trouble Shooting Hint 2: Look in ONEEYE Tool under Configuration/Communication. Select COM port and reconnect. Power cycle the board and check if SHELL is reporting a communication.

5.1.2 CAN bus Communication

The recommended communication with the evaluation kit logicboard is via CAN bus communication. The evalkit communication was tested with PEAK CAN cards but others might work too. The correct wiring can be seen in Figure 4. Please ensure that appropriate device drivers are installed at your PC operating system. https://www.peak-system.com/

After phasical connection and power up the logicboard the connection can be established by the Infineon ONEEYE tool (using GUI prepared for CAN).

Trouble Shooting Hint 1: In case of connection problems look at the device manager of your PC operating system. Check if the CAN card is detected and operating.

Trouble Shooting Hint 2: Look in ONEEYE Tool under Configuration/Communication. Check if CAN card is detected and correct baud rate is set. Please check the DIP switch 1 (see Figure 4) if it matches to the communication baud rate. Click reconnect. Power cycle the board and check if SHELL is reporting a communication.

Trouble Shooting Hint 3: If CAN communication still fails. Try to connect via USB serial communication and check if Logicboard and Software still running.

5.2 Software flashing into Logicboards via Memtool

For flashing a compiled software (.hex) file into the Logicbaords you need:

- Latest Memtool on the PC (download from the Infineon website)
- Power supply (8..18V) for the logicboard
- USB mini cable from Logicboard to the PC

For 1st time use you need to set the correct Microcontroller (target device). A configuration file can be found in the folders of USB stick, which is part of the shipping content of the inverter evaluation kits. After Memtool start please click on Target / Change … . Copy the configuration file into the folder to browse and select the LB 5.x (Memtool_LB5x.cfg) file. See Figure 11 for a short example of how to set the target device.

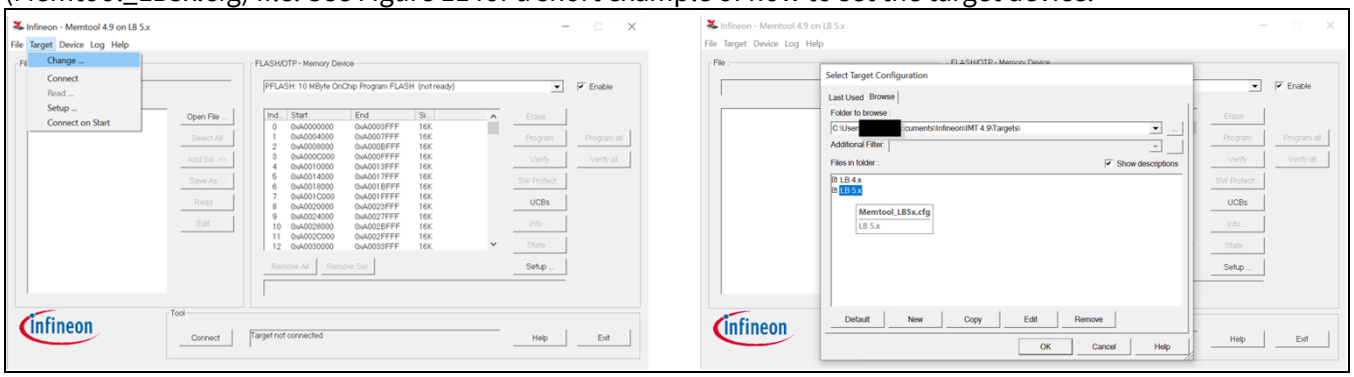

Figure 11 Prepare Memtool for the Target Device.

Once you have set the correct target device please click first on connect. If the status message appear as shown in the Figure 12 “Ready for Memtool Command” please continue with.

2) Open File.. (select the .hex file in the popup dialog)
3) Select All
4) Add Sel >>
5) Program all
6) if all is OK and no errors reported you can disconnect the device and close Memtool.

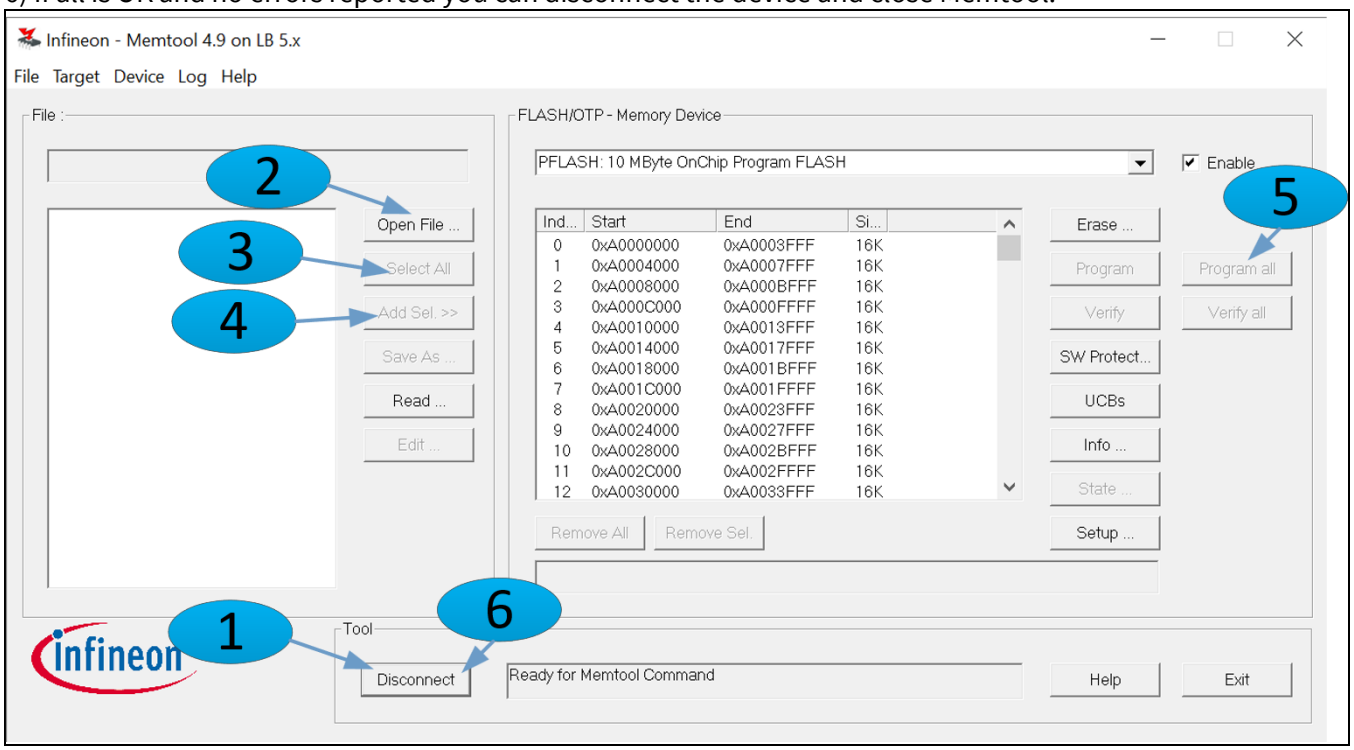

Figure 12 Flash a compiled software (.hex) file into the target device.

5.3 New Boards Inizialization

In the OneEye GUI you can find under Configuration the New Board Init structure. Simply follow this sequence and the part will initialize with default parameters (see Figure 13). The boards are now ready for the 1st tests.

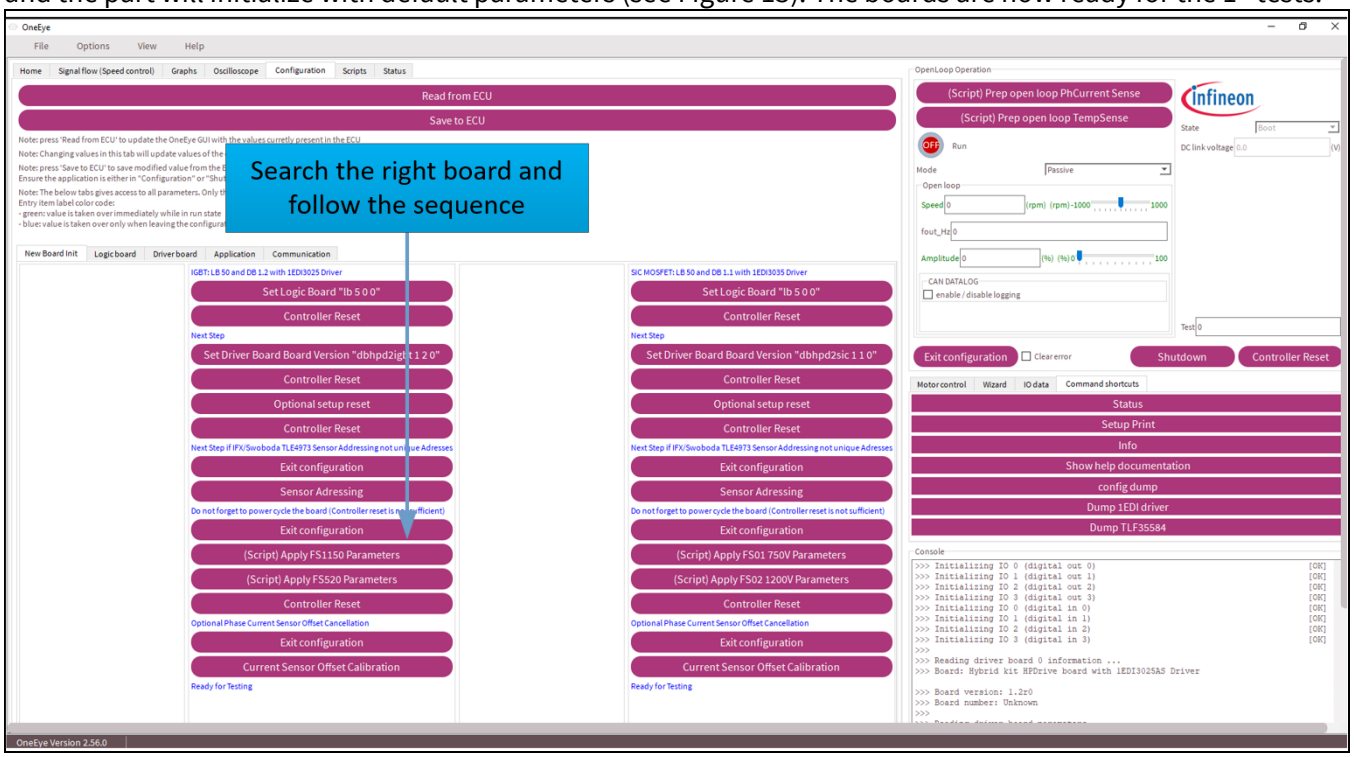

Figure 13 OneEye GUI for New Board Init sequence.

6 References and Revision History

The referenced application notes can be found at http://www.infineon.com

[1] Infineon Application Note AN-G2-KITQUICKSTART," Quickstart Guide for Inverter Evaluation Kit: Inverter Evaluation Kit for HybridPACK™ Drive G2 Power Modules.", T. Reiter

[2] Infineon Application Note AN-G2-ASSEMBLY, "Assembly Instructions for the HybridPACK™ Drive G2 power modules".

[3] Infineon Application Note AN-G2-SICSC, "Automotive SiC MOSFET G2 short circuit detection and turn-off with 1EDI3035AS gate driver".

[4] Peak-Systems, https://www.peak-system.com/

[5] Infineon Data Sheet, "FF06MR12A04MA2 HybridPACK™ DSC S module"

[6] TDK Corporation: Capacitors for DC Link, https://product.tdk.com/en/search/capacitor/film/dc-link/info?part_no=B25654A8137K001

[7] TDK Corporation: Transformers, https://product.tdk.com/en/search/transformer/transformer/gate-drive/info?part_no=B78308A2387A003

[8] Erwin Quarder Systemtechnik GmbH: Hybrid Cooler System, https://www.quarder.de/wp-content/uploads/sites/7290/2023/12/Schweikert-Bruns-Meichsner_Enhanced-performance-DSC-enabled-by-sophisticated-cooler-system.pdf

Revision History

Date	Version	Changed By	Change Description
2026-02	0.1	H. Akabay	Primary Version
2026-07	1.0	H. Akabay	Final Version

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