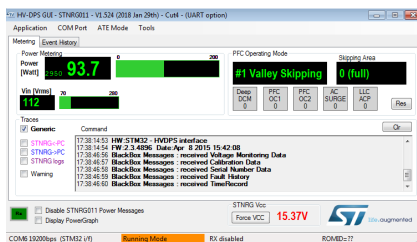


Graphical user interface for the STEVAL-PCC020V2 USB to I²C/UART interface board for STNRG011



Features

- Real-time monitoring of STNRG011 PFC and LLC parameters
- Decoding of STNRG011 specific messages
- Automated or semi-automated PFC calibration
- Access to NVM parameters
- Access to Fault and Event history
- Access to optional E²P for specific patch upload
- STEVAL-PCC020V2 interface board firmware upgrade through GUI

Description

The STSW-STNRG011GUI graphical user interface is used to monitor and configure the main parameters of the STNRG011 PFC/LLC controller.

It allows monitoring the controller key parameters in real-time (instantaneous power, PFC mode of operation, input voltage, V_{CC}).

The STSW-STNRG011GUI also provides an easy and intuitive way of tuning the STNRG011 NVM parameters (each of them listed in the GUI).

To facilitate supply designers' activity, the STSW-STNRG011GUI embeds a comprehensive wizard to calibrate the PFC parameters. The calibration can be performed automatically (assuming AC source and DC load have GPIB remote capabilities) or semi-automatically (the GUI prompts the user for actions on the instruments).

In case an optional E²P is available in the design, the STSW-STNRG011GUI is able to decode Faults and Event history messages stored in the E²P memory. It can program also the E²P memory with a firmware patch if needed.

The STSW-STNRG011GUI requires an STEVAL-PCC020V2 interface board connected to an STNRG011 controller and a PC via USB.

The GUI is compatible with WindowsXP, Windows 7/8,10. No specific third-party software is needed.

Product summary table	
Graphical user interface for the STEVAL-PCC020V2 USB to I ² C/UART interface board for STNRG011	STSW-STNRG011GUI
USB to I ² C/UART interface board for STNRG digital power controller products	STEVAL-PCC020V2
Digital combo multi-mode PFC and time-shift LLC resonant controller	STNRG011
Applications	Lighting and Controls Power Supplies and Converters

Revision history

Table 1. Document revision history

Date	Version	Changes
23-Feb-2018	1	Initial release.
18-Jan-2021	2	Added STEVAL-PCC020V2 compatibility information.

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