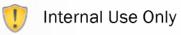
THINK ON.

Strata low voltage DC-DC evaluation boards series

June 2020







Strata low voltage DC-DC evaluation boards series

The Strata low voltage DC-DC evaluation boards series is an evaluation environment for low voltage DC-DC conversion controllers, converters and regulators. The boards feature 12 V battery connected devices for primary voltage regulation, as well as lower voltage devices for post-regulation stages. The platforms are compatible with the Strata Developer Studio, providing a Graphical User Interface for an agile start-up and fast component evaluation. The environment can be used for Automotive but also for Industrial developments. Example of DC-DC conversion devices available in this series are: the NCV81599 Automotive Buck Boost Controller, the NCV6356 Automotive Adaptive On-Time Buck Converter or the NCV8177 high PSRR Linear Regulator.

Main features

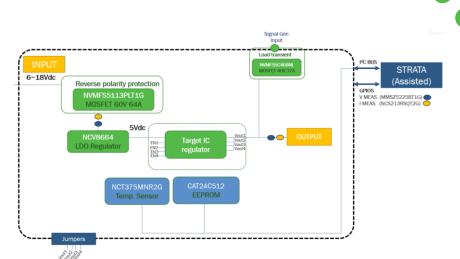
- Automotive 12 V battery DC-DC conversion
 - Primary voltage regulation (off 12 V battery)
 - Secondary low voltage regulation (postregulation)
- Monitoring and setting of system variables via Strata GUI:
 - · Input and output voltages
 - · Input and output currents
 - Power dissipation
 - Switching frequency
 - PWM adjustment
- Load transient generation from GUI
- · Fast evaluation with Strata Developer Studio
- Hardware
 - Spacious layout with multiple test points for measurement
 - Operating temperature -40oC or +125oC
- Multiple available ICs:
 - NCV81599, NCV6356, NCV8177, NCV91300, NCV48920,...

Applications

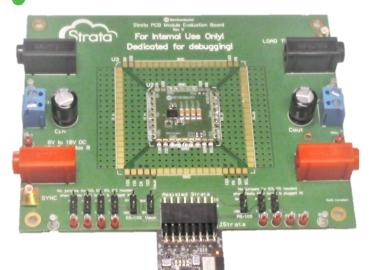
- · Automotive low voltage DC-DC converters
- ADAS, Infotainment power management.
- Industrial imaging power management
- Industrial low voltage DC-DC conversion

Benefits

- · Easy and fast evaluation and characterization of DC-DC ICs
- Speeds up development cycles
- All collateral available at Strata Developer Studio
- AEC-Q qualified parts



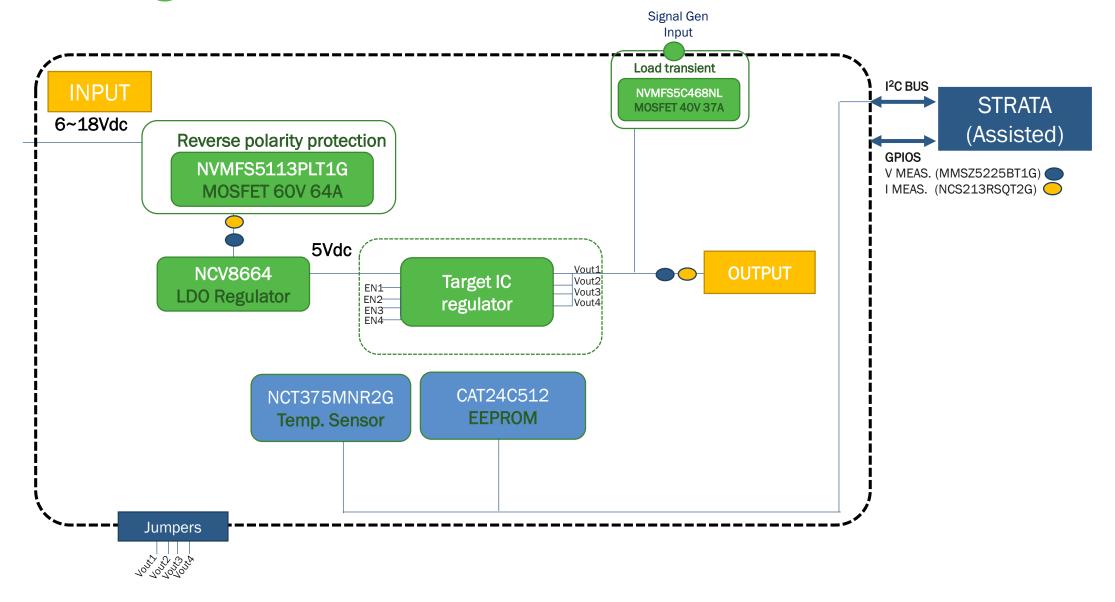








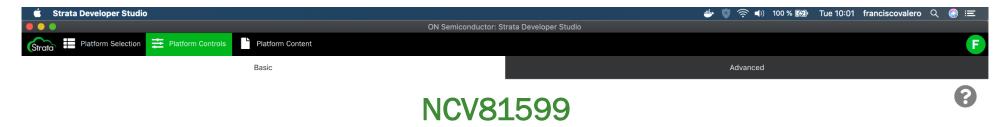
Block diagram



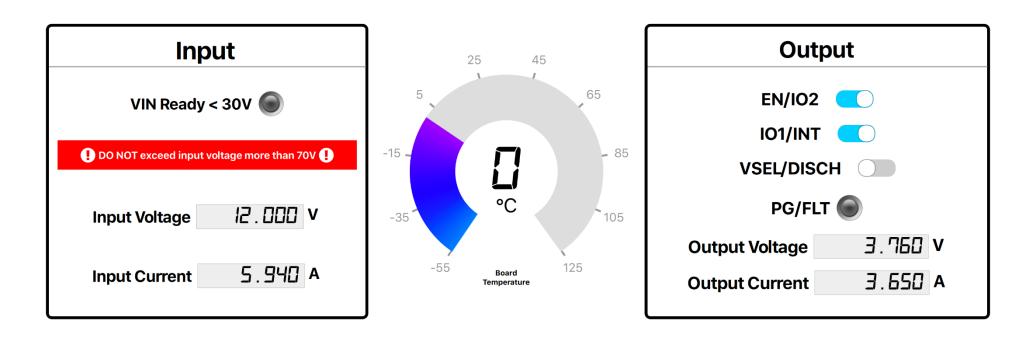




Strata Developer Studio - Basic panel

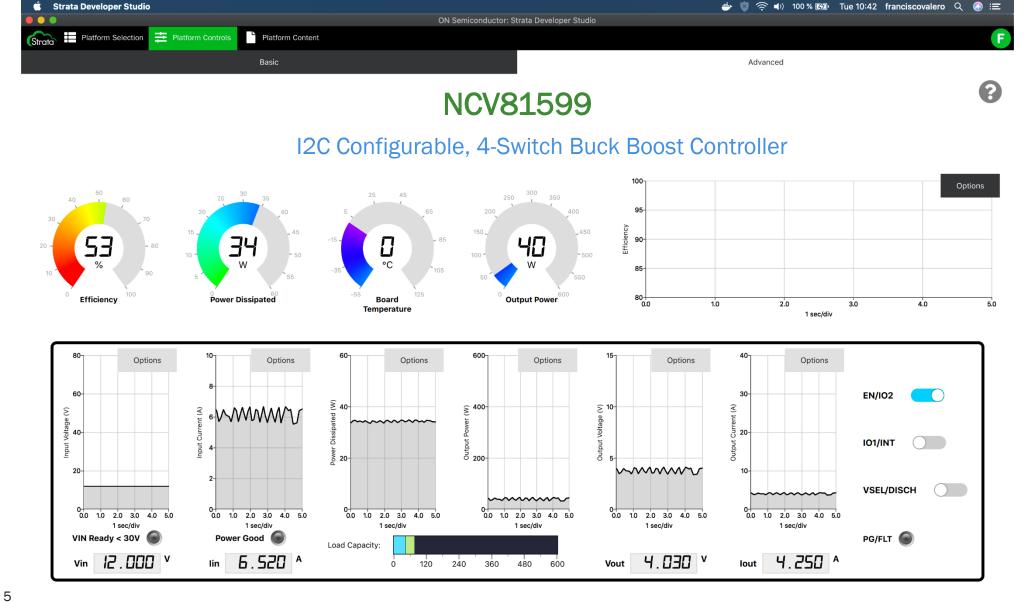


12C Configurable, 4-Switch Buck Boost Controller



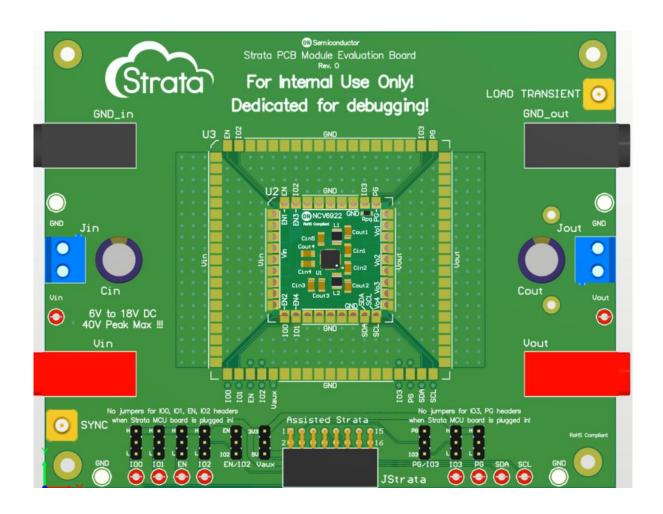


Strata Developer Studio – Advanced Panel





Many compatible ICs and more coming – Ask for yours!



- -NCV81599 Automotive Buck Boost Controller.
- -NCV6356 Automotive AOT Buck Converter.
- -NCV6357 Automotive AOT Buck Converter.
- -NCV91300 Automotive PWM Buck Converter.
- -NCV890430 Automotive Buck Regulator.
- -NCV48920 Automotive Charge Pump Buck Boost Converter.
- -NCV6923F Automotive Buck Converter.
- -NCV816x Linear Regulator.
- -NCV6323 Buck Converter.
- -NCV8177 Linear Regulator.
- -NCV59745 Automotive Linear Regulator.
- -NCV891930 Automotive Buck Controller.
- -NCV59745 Automotive Linear Regulator

- ...

Request yours

