

ON Semiconductor®



Part Number: STR-NCP3231-EVK

Description: NCP3231, 18V Input, 25A, Voltage-Mode Synchronous Buck Converter Eval Kit

Strata enables seamless evaluation of hardware devices such as this configurable NCP3231 regulator. The DC regulator can be controlled via a simple, easy-to-use UI which allows users to both measure and control key regulator functions. Design collateral such as schematics, PCB layout, test reports, etc. are supplied in the same Strata interface to ease evaluation. This design serves as a vehicle for ON's customers to start taking advantage of the new Strata ecosystem. Future designs encompassing more of ON's power solutions are in the works! See the Strata webpage at <http://onsemi.com/strata> for more details!



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Features and Applications

Features

- Strata-enabled Configurability and Telemetry
- Switching Frequency Option: 550 kHz, 1.1 MHz
- External Programmable Soft-Start
- Lossless Low-side FET Current Sensing
- Output Over-voltage Protection and Under-voltage Protection
- Selective Hiccup/Latch Off Operation for All Faults
- Pre-bias Start-up
- Power Good Output
- Internal Over-temperature Protection
- Adjustable Input UVLO

Applications

- Industry PC Equipment
- ASIC, FPGA, DSP and CPU Core and I/O Supplies
- Server and Storage System
- Telecom and Network Equipment