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STR-NCV48220-LDO-CP-GEVB: Strata Enabled NCV48220 LDO Charge Pump Evaluation Board

The STR-NCV48220-LDO-CP-GEVB provides an evaluation board for the NCV48220 LDO charge pump using Strata Developer Studio. The NCV48220 is a very low quiescent current 150 mA LDO regulator with an integrated battery voltage charge pump boost converter for automotive applications, enable signal functionality, current limit, thermal shutdown, and reverse bias current protection. This evaluation board is used with Strata to control the NCV48220 and monitor telemetry such as input/output voltage, input/output current, power loss, and temperature. See the Strata webpage at www.onsemi.com/strata for more details!

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Features and Applications

Features

- Output Voltage: 5 V
- LDO Output Current: up to 150 mA
- Very Wide Input Voltage Operation Range: from 3 V to 40 V
- Very Low Quiescent Current: typ 35 μ A
- Enable Function (1.0 μ A max quiescent current when disabled)
- Microprocessor Compatible Control Functions: Reset Output
- AEC-Q100 Grade 1 Qualified and PPAP Capable
- Protection Features: Current Limitation, Thermal Shutdown, and Reverse Bias Output Current

Applications

- Stop-Start Applications
- Instruments and Clusters
- Infotainment

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
STR-NCV48220-LDO-CP-GEVB	Active	Pb-free	Strata Enabled NCV48220 LDO Charge Pump Evaluation Board	NCV48220D50R2G	Contact Local Sales Office Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Software	Strata Setup Software for Microsoft Windows	Strata setup Windows - 87664 KB	2.4.0
Eval Board: BOM	STR-NCV48220-LDO-CP-GEVB Bill of Materials (ROHS Compliant)	STR-NCV48220-LDO-CP-GEVB_BOM_ROHS - 289 KB	0
Eval Board: Gerber	STR-NCV48220-LDO-CP-GEVB Gerber Layout Files (Zip Format)	STR-NCV48220-LDO-CP-GEVB_GERBER - 358 KB	0
Eval Board: Test Procedure	STR-NCV48220-LDO-CP-GEVB Test Procedure	STR-NCV48220-LDO-CP-GEVB_TEST_PROCEDURE - 238 KB	0
Eval Board: Schematic	STR-NCV48220-LDO-CP-GEVB Schematic	STR-NCV48220-LDO-CP-GEVB_SCHEMATIC - 1169 KB	0
Eval Board: Manual	STR-NCV48220-LDO-CP-GEVB User Guide	STR-NCV48220-LDO-CP-GEVB_USER_GUIDE - 840 KB	0

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