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STR-NCP45560-ECOSWITCH-GEVB: Strata Enabled NCP45560 ecoSWITCH Load Switch EVB

The STR-NCP45560-ECOSWITCH-GEVB provides an evaluation board for the NCP45560 ecoSWITCH load switch using Strata Developer Studio. The NCP45560 offers a component and area-reducing solution for power domain switching with ultra-low on resistance, in-rush current limiting via soft-start, short-circuit protection, thermal protection, and power good signaling. This evaluation board is used with Strata to control the ecoSWITCH and monitor telemetry such as input/output voltage, current, and temperature. See the Strata webpage at www.onsemi.com/strata for more details!

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[ecoSwitch Load Switch GEVB | Strata](#)

Features and Applications

Features

- Advanced Controller with Charge Pump
- Integrated N-Channel MOSFET with Ultra LowRON
- Input Voltage Range 0.5 V to 13.5 V
- Soft-Start via Controlled Slew Rate
- Adjustable Slew Rate Control
- Power Good Signal
- Thermal Shutdown
- Undervoltage Lockout
- Short-Circuit Protection
- Extremely Low Standby Current
- Load Bleed (Quick Discharge)

Applications

- Portable Electronics and Systems
- Notebook and Tablet Computers
- Telecom, Networking, Medical, and Industrial Equipment
- Set-Top Boxes, Servers, and Gateways
- Hot-Swap Devices and Peripheral Ports Hot-Swap Devices and Peripheral Ports

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Evaluation/Development Tool Information

| Product | Status | Compliance | Short Description | Parts Used | Action |
|-----------------------------|--------|------------|---|------------------|--|
| STR-NCP45560-ECOSWITCH-GEVB | Active | Pb-free | Strata Enabled NCP45560 ecoSWITCH Load Switch EVB | NCP45560IMNTWG-H | 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-NCP45560-ECOSWITCH-GEVB Bill of Materials (ROHS Compliant) | STR-NCP45560-ECOSWITCH-GEVB_BOM_ROHS - 247 KB | 0 |
| Eval Board: Gerber | STR-NCP45560-ECOSWITCH-GEVB Gerber Layout Files (Zip Format) | STR-NCP45560-ECOSWITCH-GEVB_GERBER - 376 KB | 0 |
| Eval Board: Schematic | STR-NCP45560-ECOSWITCH-GEVB Schematic | STR-NCP45560-ECOSWITCH-GEVB_SCHEMATIC - 1130 KB | 0 |
| Eval Board: Test Procedure | STR-NCP45560-ECOSWITCH-GEVB Test Procedure | STR-NCP45560-ECOSWITCH-GEVB_TEST_PROCEDURE - 534 KB | 0 |
| Video | ecoSwitch Load Switch GEVB Strata | WVD17393/D | |
| Eval Board: Manual | STR-NCP45560-ECOSWITCH-GEVB User Guide | STR-NCP45560-ECOSWITCH-GEVB_user_guide - 960 KB | 0 |

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