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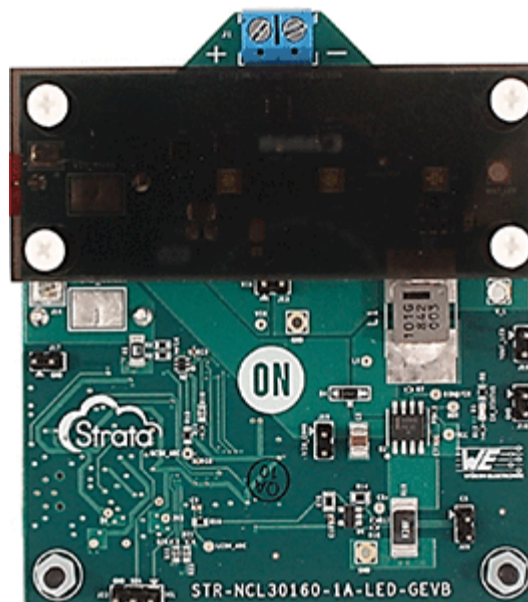


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# STR-NCL30160-1A-LED-GEVB: Strata Enabled NCL30160 1A LED Driver

The STR-NCL30160-1A-LED-GEVB provides an evaluation board for the NCL30160 1A LED driver using Strata Developer Studio. The NCL30160 is an NFET hysteretic step-down, constant-current driver for high power LEDs that offers fast load transient response, PWM LED dimming, resistor-programmable LED current, shorted LED protection, under-voltage lockout and thermal shutdown in an SOIC-8 package. This evaluation board is used with Strata to control the NCL30160 and monitor telemetry such as input voltage/current, LED voltage/current, and temperature. See the Strata webpage at [www.onsemi.com/strata](http://www.onsemi.com/strata) for more details!

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## Featured Video

[1A LED Driver EVB | Strata](#)

## Features and Applications

### Features

- Integrated 1A/50mΩ MOSFET
- VIN Range 6.3V to 40V
- Shorted LED Shutdown Protection
- Up to 1.4 MHz Switching Frequency
- No Control Loop Compensation Required
- Adjustable LED Current
- Single Pin Brightness and Enable/Disable Control Using PWM
- Supports All-Ceramic Output Capacitors and Capacitor-less Output
- Thermal Shutdown Protection
- Capable of 100% Duty Cycle Operation
- Pb-Free Device

### Applications

- LED Driver
- Constant Current Source
- General Illumination
- Industrial Lighting

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## Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
<a href="#">STR-NCL30160-1A-LED-GEVB</a>	Active	Pb-free	Strata Enabled NCL30160 1A LED Driver	NCL30160DR2G	<a href="#">Contact Local Sales Office Inventory</a>

## 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: Schematic	STR-NCL30160-1A-LED-GEVB Schematic	STR-NCL30160-1A-LED-GEVB_SCHEMATIC - 1193 KB	0
Eval Board: Gerber	STR-NCL30160-1A-LED-GEVB Gerber Layout Files (Zip Format)	STR-NCL30160-1A-LED-GEVB_GERBER - 4105 KB	0
Eval Board: Test Procedure	STR-NCL30160-1A-LED-GEVB Test Procedure	STR-NCL30160-1A-LED-GEVB_TEST_PROCEDURE - 452 KB	0
Eval Board: BOM	STR-NCL30160-1A-LED-GEVB Bill of Materials (ROHS Compliant)	STR-NCL30160-1A-LED-GEVB_BOM_ROHS - 71 KB	0
Video	1A LED Driver EVB   Strata	WVD17395/D	
Eval Board: Manual	STR-NCL30160-1A-LED-GEVB User Guide	STR-NCL30160-1A-LED-GEVB_user_guide - 996 KB	0

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