

NCL31000ASGEVB: NCL31000 Intelligent LED Driver Arduino Shield Evaluation Board

The NCL31000ASGEVB is an Arduino shield form factor evaluation board containing a single NCL31000MNITWG intelligent LED driver. It can be connected either with the Arduino interface to an MCU board, or through the I²C interface, for example via a USB adapter board to the PC.



The NCL310xx family of intelligent LED drivers target luminaire applications. The NCL31000 incorporates a high efficiency buck LED driver that supports both high-bandwidth analog and PWM dimming down to zero current. Two auxiliary DC-DC converters are included to power a microcontroller and other peripherals, such as sensors. Diagnostics are included to measure input and output current and voltage, LED temperature and DC-DC voltages. The device is ideal for Visible Light Communication and Indoor Positioning.

Features and Applications

Features

- Arduino Shield compatible
- Visible Light Communication capable / YellowDot™ compliant
- >97 % Efficiency of total solution, incl EMC, DC-DC's, diagnostics, etc
- High linearity and 0,1% accuracy, true dimming to zero
- Input voltage 24 up to 57V
- LED Power capability beyond 100W
- Optional I²C/SPI interface (NCL31000MNITWG I²C variant mounted)

Applications

- Visible Light Communication
- Connected indoor & outdoor lighting
- Multi-channel managed lighting
- Theater lighting
- Therapeutic lighting
- Information displays
- Backlighting





Product	Status	Compliance	Short Description	Parts Used
NCL31000ASGEVB	Active	Pb-free	NCL31000 Intelligent LED Driver Arduino Shield Evaluation Board	NCL31000MNITWG , NCL31000MNSTWG , NCL31001MNITWG , NCL31001MNSTWG

Technical Documents			
Type	Document Title	Document ID/Size	Rev
Eval Board: Manual	NCL31000ASGEVB User Guide	EVBUM2798/D - 497 KB	1
Eval Board: Gerber	NCL31000ASGEVB_GERBER (Zip)	NCL31000ASGEVB_GERBER - 163 KB	0
Eval Board: Schematic	NCL31000ASGEVB_SCHEMATIC.rev0	NCL31000ASGEVB_SCHEMATIC - 883 KB	0

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