



NUD4001DGEVB: LED Driver Revision A Evaluation Board

The NUD4001 device is designed to replace discrete solutions for driving LEDs in low voltage AC-DC applications 5.0 V, 12 V or 24 V. An external resistor allows the circuit designer to set the drive current for different LED arrays. This discrete integration technology eliminates individual components by combining them into a single package, which results in a significant reduction of both system cost and board space.

The purpose of this evaluation board is to demonstrate the operation of the NUD4001 device for applications where the voltage difference between the input voltage and the LED's voltage is small (i.e. when a 12 V supply voltage is used to power up a LED array composed of three Luxeon 1 devices). The defaults of the revision A evaluation board are set to take a 12 V DC or AC input voltage and to provide a LED current of 350 mA. The settings can be changed to meet different application needs. However, the important thing to consider when changing the default settings of the board is not to exceed the NUD4001 device's ratings of voltage, current and power dissipation. The DC or AC input voltage is applied between the two terminals of the board. The connector named Con1 can be used as an alternative way to supply a dc voltage to the board from an IBM computer adapter with an output of 16 Vdc and 4.5 A.



Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NUD4001DGEVB	Active	Pb-free	LED Driver Revision A Evaluation Board	NUD4001DR2G	Contact Local Sales Office Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NUD4001DGEVB Bill of Materials ROHS Compliant	NUD4001DGEVB_BOM_ROHS - 88 KB	2
Eval Board: Gerber	NUD4001DGEVB Gerber Layout Files (Zip Format)	NUD4001DGEVB_GERBER - 35 KB	0
Eval Board: Schematic	NUD4001DGEVB Schematic	NUD4001DGEVB_SCHEMATIC - 128 KB	1
Eval Board: Test Procedure	NUD4001DGEVB Test Procedure	NUD4001DGEVB_TEST_PROCEDURE - 37 KB	0
Video	LED Driver Evaluation Board - NUD4001DGEVB	WVD17565/D	

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