DB3651



L99LD21-ADIS

Data brief



• Free ready to run application firmware available on *www.st.com*, to support quick evaluation and development

Description

The L99LD21-ADIS discovery board enables you to drive four independent high brightness LED strings for automotive front lighting applications by connecting it to the SPC560B-DIS discovery board, application firmware examples and GUI are available.

Features

- 2 soldered L99LD21 flexible LED drivers
- Board size 100 x 55 mm
- Two extension headers (2 x 36 pin 100 mil) for quick connection to SPC560B-DIS discovery board
- Controllable by dedicated GUI available on www.st.com

Table 1. Device summary

Order code	Reference		
L99LD21-ADIS	L99LD21 expansion board		

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1 System requirements, HW and SW resources

1.1 System requirements

- Windows PC (2000, XP, Vista, 7)
- USB type A to mini-B cable
- SPC560B-DIS discovery board
- L99LD21-ADIS board



Figure 1. Complete system

1.2 Hardware configuration

L99LD21-ADIS can be sold stand alone or with microcontroller discovery board SPC560B-DIS. For more information, please refer to ST website *www.st.com*.

1.3 GUI

GUI is available to control the entire system, that is SPC560B-DIS Discovery board connected with the L99LD21-ADIS application board. For more information, and to download the latest version available, please refer to ST web www.st.com.



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le Communication Settings Services Debug H .99LD20/21 EvalBoard ower LED		Tx: ::::- 0 Rx: ::::- 0			. 0	1 🌽	Board Status WDC trigger	- V8at ???	SBN FS Operation mo lestarts uC : Device A: ???	
ev. 1.9 April : how Lightin itenderd Cor	Board	life augmented	STMicroelectionics assum			f the use of t	his application		VBoost2 ???	Device B: ???
* DEV	A			VMelk 200 Hz		DIN				
BOOST	OFF Freq.		VBoost: 0V	Freq	hz C	Low	CO CTON	FLAVE	VICE STATUS: - WD S (FAIL WD FAIL VS UV	RST 6 SPIE 5
	OUT	DUTY	PHASE	PEAK CURRENT	LED CUR VLE	D TOFF B	BUCK INPUT	LED INFO	BUCK DIAGNOSIS	FE2 4 FE1 3
BUCK 1	on off Pwm din	02	0.0*		<pre>③High ∨</pre>	x usec.	Aulo	V _{LED} 0 kvg LED 1.000 A luc.pr 0.000 A	OL SHT TW1 TW2 DVT TON_MIN TON_MAX TOFF_MIN TOFF_MAX	DE 2 GW 1 FS 0
BUCK 2	ON OFF Pwm Din	02	0.0* 	DA	⊙High OLow	xusec.	Auto	VLED 0 kvg LED 1.000 A I LLJPF 0.000 A	OL SHT TW1 TW2 OVT TON_MIN TON_MAX TOFF_MIN TOFF_MAX	Blanking Time
* DEV	B									4
BOOST	OFF Freq.		NPG OVP DI	WHclk 200 Hz N Freq 200 Hz State 200 Hz N Freq 200 Hz State 200 Hz Sta	hz	DIN O Low High PWM	GO STBY	MASTER		Global Status Byte Status GSBN 7
	OUT	DUTY	PHASE	PEAK CURRENT	LED CUR VL	ED TOFF	BUCK INPUT	LED INFO	BUCK DIAGNOSIS	FE2 4 FE1 3
BUCK 1	ON OFF Pw/M DIN	0 %	0.0 *		⊙High OLow	V xusec.	Auto	V _{LED} 0 I _{AVGLED} 1.000 A		DE 2 GW 1 FS 0
1	ON OFF	0%	0.0 *		⊙ High	V xusec.	Auto	V _{LED} 0	DL SHT TW1 TW2 OVT	Blanking Time

Figure 2. GUI interface

1.4 Demonstration software

Firmware is available for easy demonstration. For more information and to download the latest version available, please refer to ST web *www.st.com*.



2 Revision history

Table 2	. Document	revision	history
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Date	Revision	Changes
25-Jun-2018	1	Initial release.



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