

■ Preliminary Specifications

☐ Final Specifications

Title	Backlight Driving Board			
Model Name	DB-LD01-XX			
Version	Rev.0			

Approved by

Date

Notice: This Specification is subject to change without notice.

Approved By	Prepared By
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2021/03/22	2021/03/22



Product Specification DB-LD01-XX

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Revised Record

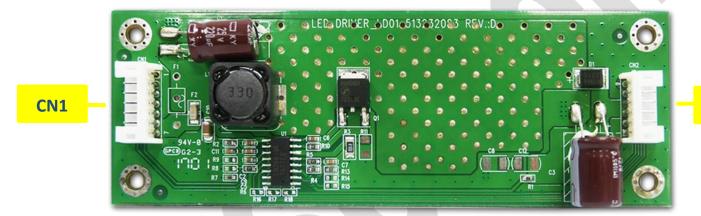
Version	Date	Revised Content/Summary	Page	Remark
0	2021/03/22	Final Specification was first issued	All	
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1.General Function

This is a high efficiency LED backlight driver board which is capable to driving up to 4 channels of LED string. This board provides the user with OVP and OCP features.

This <u>Product Specification</u> is made to be the standard of <u>TWScreen</u> manufactured LED Driving Board such a standard will be followed in <u>TWScreen</u> production, shipment, and quality inspection.

2.Interface



CN₂

2-1. CN1 : Input Connector2-2. CN2 : Output Connector





3. Electrical Characteristics

<u>Para</u>	<u>Parameter</u>		Тур.	Max.	<u>Unit</u>	
Iput Voltage	Vin	10.8	12.0	26	V	
Input Current	lin		2.5		А	
Output Voltage	Vout			51	V	
Efficiency	Eff.		80		%	
Sub Current	lout			200	mA	
Total Current	lout			800	mA	
LED ON/OFF	Von	2.5		5.0	V	
LED ON/OFF	Voff			0.5	V	
	PWM High Level	2.5		5.0	V	
Dimmina	PWM Low Level			0.5	V	
Dimming	PWM Duty Cycle	5		100	%	
	PWM Frequency	0.1		20	KHz	

*** Depend on panel type



4.Interface Characteristics

4.1. Input Connector

Location – CN1: 7pin wafer, pitch 2.0mm R/A, STM M24267R or equiv Pin Assign and Definition

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Pin No.	Symbol	Pin No.	Symbol	Pin No.	Symbol
1	GND	4	NC	7	+12 V
2	GND	5	ON/OFF		
3	ADJ	6	+12 V		

4.2. Output Connector

Location – CN4 : 6pin wafer , pitch 2.0mm R/A , STM M24266R or equiv Pin Assign and Definition

3						
Pin No.	Symbol	Pin No.	Symbol			
1	IRLED_1	4	VLED+			
2	IRLED_2	5	IRLED_3			
3	VLED+	6	IRLED_4			



5.Mechanical Characteristics

Dimension: 115(L) *40(W) *12(H) mm

