



■ Preliminary Specifications

☐ Final Specifications

Title	Backlight Driving Board	
Model Name	DB-LD1B-12	
Version	Rev.0	

Approved by

Date

Notice: This Specification is subject to change without notice.

Approved By	Prepared By
Tony Chiu	Frank Kuo
2022/05/18	2022/05/18



Product Specification DB-LD1B-12

Contents

1.GENERAL FUNCTION	4
2.INTERFACE	4
3.ELECTRICAL CHARACTERISTICS	5
4.INTERFACE CHARACTERISTICS	6
E MECHANICAL CHADACTEDISTICS	_





Product Specification DB-LD1B-12

Revised Record

Version	Date	Revised Content/Summary	Page	Remark
0	2022/05/18	Final Specification was first issued	All	
		4		



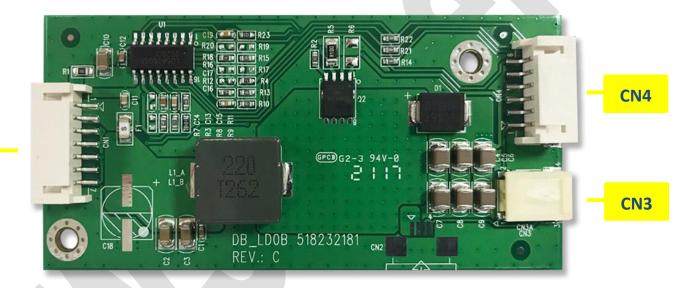


1.General Function

This is a high efficiency LED backlight driver board which is capable to driving up to 4 channels merged into two 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



CN1

2-1. CN1 : Input Connector2-2. CN4 : Output Connector2-3. CN3 : Output Connector



3. Electrical Characteristics

<u>Para</u>	Min.	Тур.	Max.	<u>Unit</u>		
Iput Voltage	Vin	10.8	12.0	26	V	
Input Current	Input Current lin		3		А	
Output Voltage Vout				61	V	
Efficiency Eff.			80		%	
Sub Current	lout		130		mA	
Total Current	lout		260		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 MS24267R or equiv Pin Assign and Definition

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

4.2. Output Connector

Location – CN4 : 6pin wafer $\,^{,}$ pitch 2.0mm R/A $\,^{,}$ STM MS24266R or equiv Pin Assign and Definition

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

Location – CN3 : 2pin wafer , PH=2.0mm R/A , CP0502P1ML0 or equiv Pin Assign and Definition

9			
Pin No.	Symbol		
1	VLED+		
2	IRLED_1		





5.Mechanical Characteristics

Dimension: 84(L) *40.8(W) *8.5(H) mm

Weight: MAX. 20g

