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#### ☐ Final Specifications

Title	Backlight Driving Board	
Model Name	DB-LD0H-02	
Version	Rev.0	

Customer
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-LD0H-02

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# Product Specification DB-LD0H-02

# **Revised Record**

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



#### 1.General Function

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



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



# 3. Electrical Characteristics

<u>Para</u>	Min.	<u>Тур.</u>	Max.	<u>Unit</u>		
Input Voltage	Vin	10.8	12.0	20	V	
Input Current	lin		1		Α	
Output Voltage	Vout			40	V	
Efficiency	Eff.		80		%	
Sub Current	lout		220		mA	
Total Current	lout		220		mA	
LED ON/OFF	Von	2.5		5.0	V	
LED ON/OFF	Voff	0		0.5	V	
	PWM Level	2.5	<b></b>	5.0	V	
Dimming	Duty Ratio	5		100	%	
	Frequency	0.2		20	KHz	

\*\*\* Depend on panel type



### **4.Interface Characteristics**

#### 4.1. Input Connector

 $\mbox{Location} - \mbox{CN1}: \mbox{8pin wafer} \ , \ \mbox{pitch 1.0mm SMD} \ , \ \mbox{ACES 50224-008 or equivalent} \\ \mbox{Pin Assign and Definition}$ 

Pin No.	Symbol	Pin No.	Symbol	Pin No.	Symbol
1	GND	4	ADJ	7	+12 V
2	GND	5	ON/OFF	8	+12 V
3	GND	6	+12 V		

#### 4.2. Output Connector

 $\label{location-CN2} \mbox{Location-CN2: 6pin wafer } \mbox{ pitch 1.0mm SMD } \mbox{ ACES 50224-006 or equivalent Pin Assign and Definition}$ 

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



# **5.Mechanical Characteristics**

Dimension: 50(L) \*30(W) \*4.02(H) mm

