



Specification for
GH828A(A5)



SPECIFICATION

Product : LED Backlight Driver

Model Name : GH828A(A5)

GCCT Name : GCCT828AE

Supportable Dimming : External Analog

September 2019

Revision History

No	Date	Revision	Page
	Sept. 2019	Final version issued	

1. Application

This specification is an users' guidance for the adoption of mating LED driver.
The target TFT LCD Module which has not been built-in the LED driver for 4 CH type Backlight are as below;

AUO 23.8", G238HAN01.3 (4CH, 95mA 64V)

2. Electrical Characteristics

2.1 Absolute Maximum Ratings

Item	Symbol	Spec	Unit	Remarks
Input Voltage1	Vin1	10.8 ~ 26.4	V	
Input Voltage2	On/Off	5.25	V	
Operating Temperature	Top	0 ~ 50	℃	
Storage Temperature	Tstg	-20 ~ 60	℃	
Relative Humidity	RH	80	%	

2.2 Control Signal

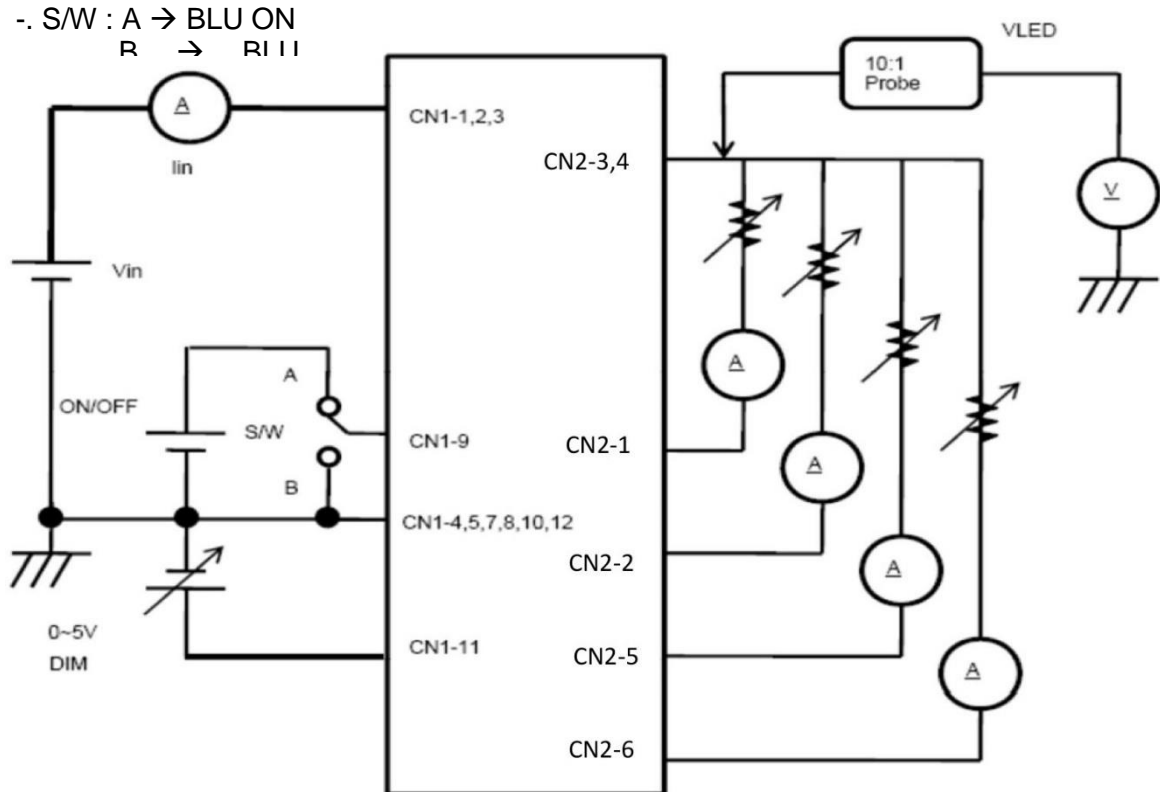
Pin No.	Symbol	Status	Action	Remarks
CN1 #12	On/Off	HIGH	LAMP-ON	2.4~5.25V
		LOW	LAMP-OFF	0.8V MAX

2.3 Output Characteristics

No.	Item	SYM	Condition	Min.	Typ.	Max.	Unit
1	Input Voltage	Vin	-	10.8	-	26.4	Vdc
2	Input Current	Iin	Vin=12V, DIM= 100%			3.0	A
			Vin=24V, DIM= 100%			1.5	
3	Output Current	Iout (Max)	Vin=12V or 24V , DIM= 100%	85.0	95.0	105.0	mAmean
4	Backlight On / Off Control	On	-	2.4	-	5.25	Vdc
		Off	-	-0.3	-	0.8	Vdc

* Output Voltage is higher than the Input Voltage at least 3V or more.

2.4 Test Circuit



3. Interface

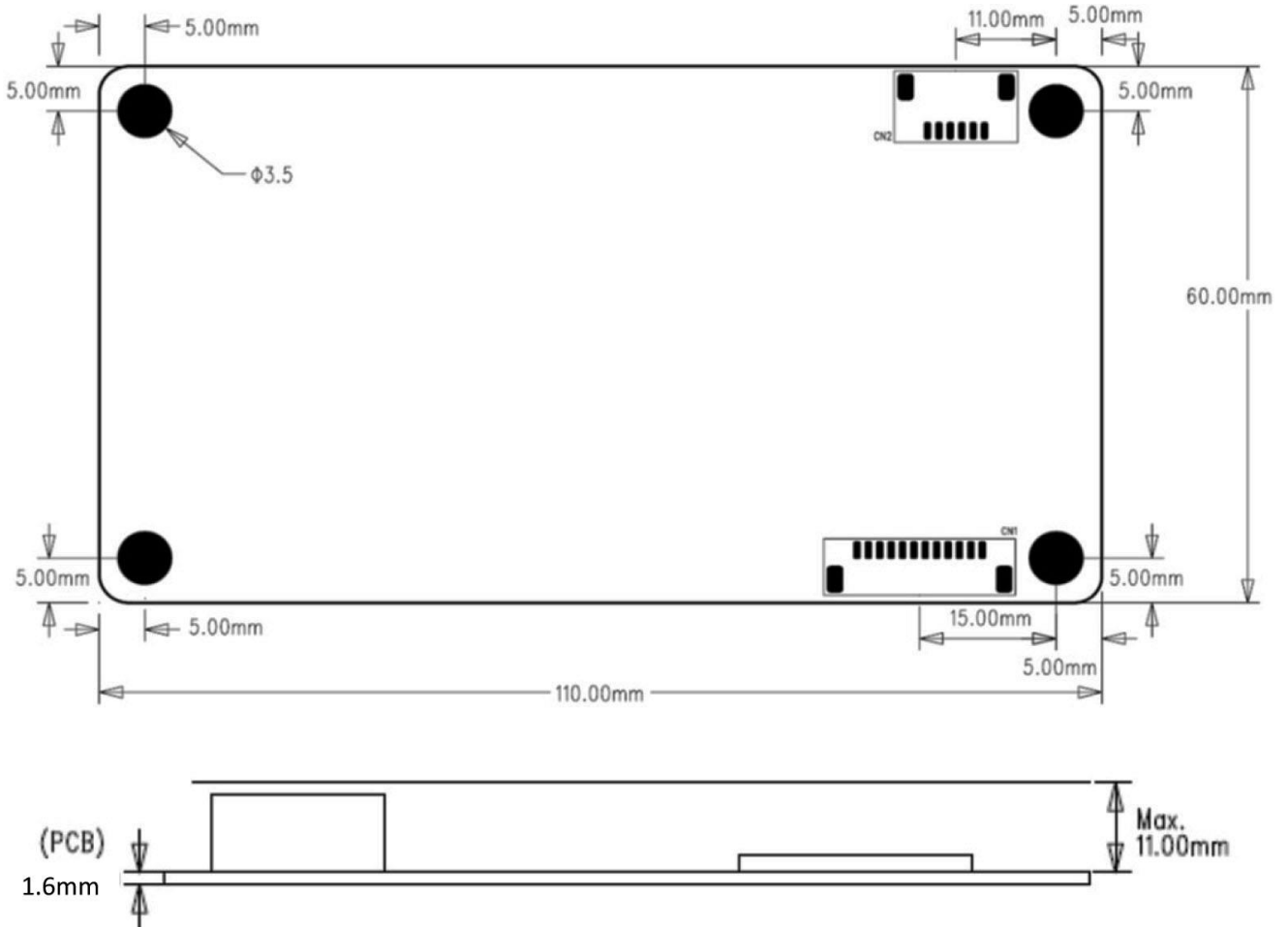
3.1 CN1 Connector (Input) : 12505WR-12A (YEONHO) or Equivalent

Pin No.	Symbol	Description
1,2,3	VIN	Voltage Input : 12V (typ) or 24V(typ)
4,5,7,8,10,12	GND	Ground
6	N. C.	No Connection
8	On / Off	LED Driver ON/OFF Control
11	A - DIM	Analog Dimming 0V (max) ~ 5V (min)

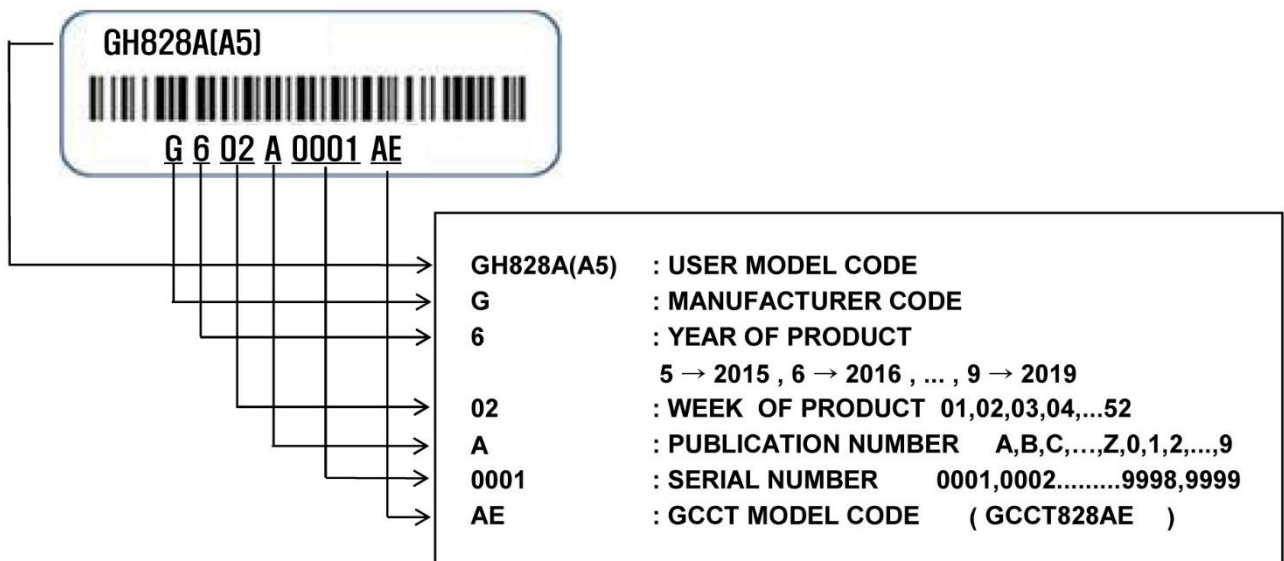
3.2 CN2 Connector (Output) : 12507WR-06L (YEONHO) or Equivalent

Pin No.	Symbol	Description
1	FB1	LED BAR1_Feedback 1
2	FB2	LED BAR1_Feedback 2
3	VLED	System Output
4	VLED	System Output
5	FB3	LED BAR1_Feedback 3
6	FB4	LED BAR1_Feedback 4

4. Dimension (110 mm x605 mm, Tolerance : +0.8mm, -0.2mm)

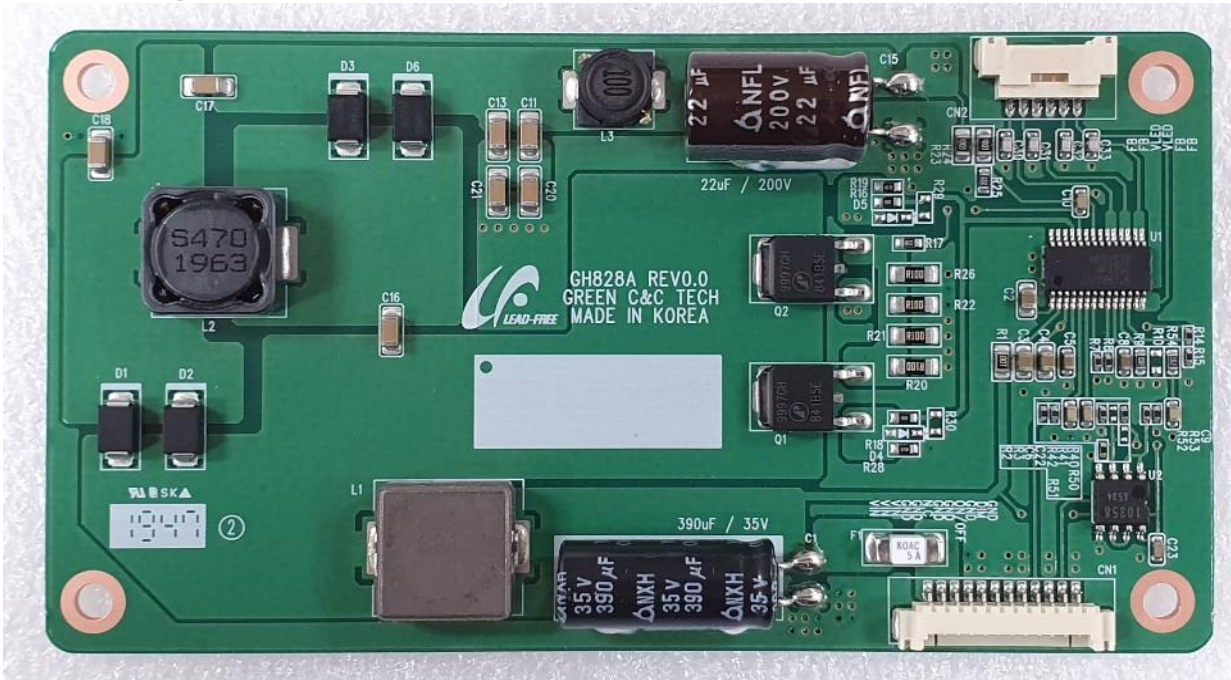


5. Product Label on the rear surface of PCB

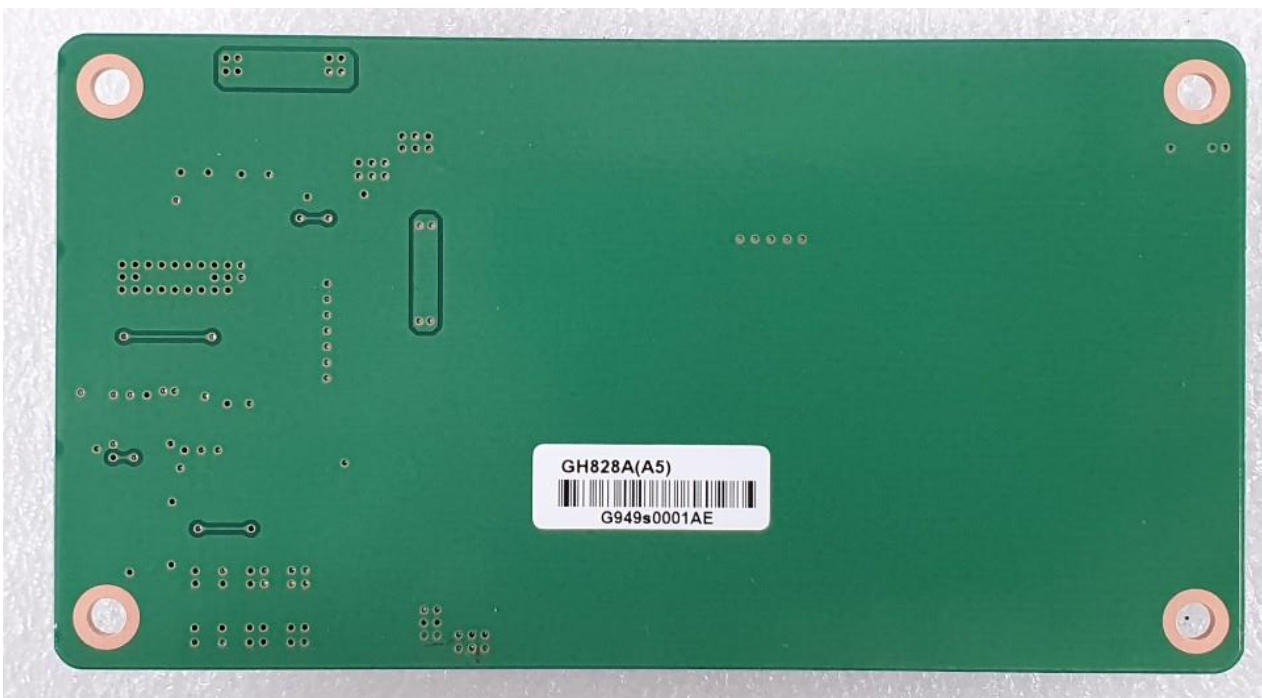


6. Product Pictures

Top View



Bottom View





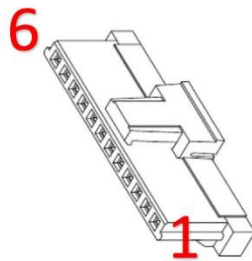
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- 7. Connection cable (optional accessory)
- 7.1 Connection between LED driver and mating LCD panel

[AUO 23.8", G238HAN01.3]

CBL301-LEDOUT-GH828A-G238HAN01.3



300mm



Device : GH828A(A5)
 Connector : 12507WR-06L (YEONHO)
 Housing : 12507HS-06L (YEONHO)

Device : G238HAN01-3
 Connector : 3707K-S06N-21R
 Housing : H112K-P06N-03B (Locking Type)

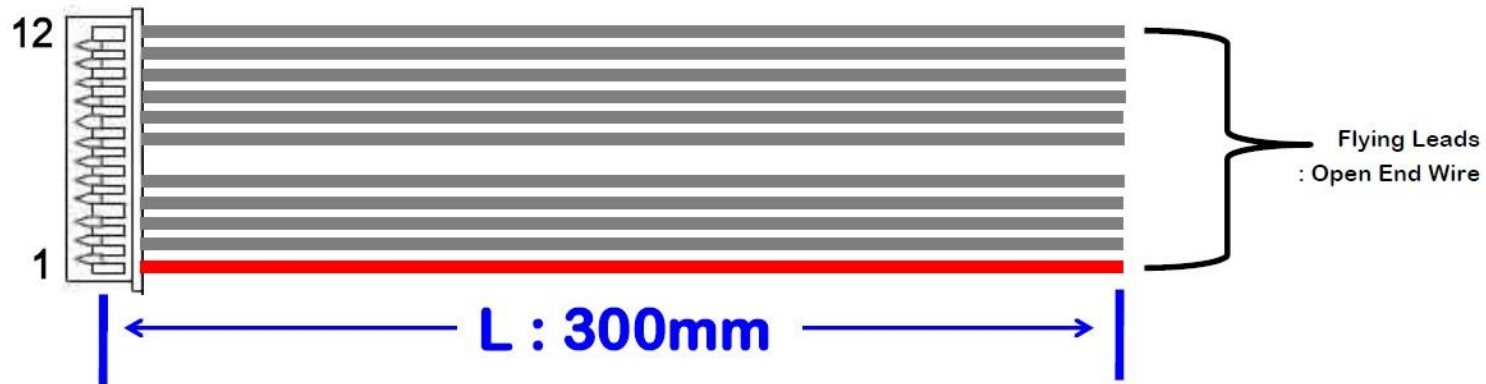
1	FB1
2	FB2
3	VLED
4	VLED
5	FB3
6	FB4

1	1
2	2
3	3
4	4
5	5
6	6

1	FB
2	FB
3	VLED
4	VLED
5	FB
6	FB

7.2 Connection between LED driver and customer's mating diver board

PN : CBL301-LEDIN-GH828A-OPEN



12V or 24V INPUT CN1 for GH828A

W A F E R : 12505WR-12 (YEONHO)
H O U S I N G : 12505HS-12 (YEONHO)

PIN	SPEC	COLOR	CONNECTION	CABLE LENGTH
1	LED INPUT 12V	RED	FLYING LEAD	300mm
2	LED INPUT 12V	WHT	FLYING LEAD	
3	LED INPUT 12V	WHT	FLYING LEAD	
4	GND	WHT	FLYING LEAD	
5	GND	WHT	FLYING LEAD	
6	NC	-	-	
7	GND	WHT	FLYING LEAD	
8	GND	WHT	FLYING LEAD	
9	ON OFF	WHT	FLYING LEAD	
10	GND	WHT	FLYING LEAD	
11	DIM	WHT	FLYING LEAD	
12	GND	WHT	FLYING LEAD	