



TRIO-084-AUTF

Product Specification

Low Power Consumption, No Extra Heat Generation.

TRIO-084-AUTF : 8.4" Direct Sunlight Readable TFT LCD

General Specifications

Module Size	203.0(W) x 142.5(H) x 8.0(D) (typ.) mm
Effective Display Area	170.4(H) x 127.8(V)mm
Driver Element	TFT
Dor Number	800x3(RGB) x 600
Dot Pitch	0.213x 0.213
Interface Mode	1 channel LVDS
Pixel Arrangement	Stripe
Display Colors	262K(6-bit) / 16.2M(8-bit)
Surface Treatment	High Efficiency AR coating (Haze <15)
Operating Temp	-30 °C - 85 °C
Storage Temp	-30 °C - 85 °C
Weight	250 (typ) g
RoHS Compliant	RoHS Compliance

INTERFACE SIGNALS

Pin	Symbol	Description
1	VDD	Power Supply, 3.3V (typical)
2	VDD	Power Supply, 3.3V (typical)
3	UD	Vertical Reverse Scan Control, When UD=Low or NC → Normal Mode. When UD=High → Vertical Reverse Scan. Note
4	LR	Horizontal Reverse Scan Control, When LR=Low or NC → Normal Mode. When LR=High → Horizontal Reverse Scan. Note
5	RxIN1-	LVDS differential data input Pair 0
6	RxIN1+	LVDS differential data input Pair 0
7	GND	Ground
8	RxIN2-	LVDS differential data input Pair 1
9	RxIN2+	LVDS differential data input Pair 1
10	GND	Ground
11	RxIN3-	LVDS differential data input Pair 2
12	RxIN3+	LVDS differential data input Pair 2
13	GND	Ground
14	RxCLKIN-	LVDS differential Clock input Pair
15	RxCLKIN+	LVDS differential Clock input Pair
16	GND	Ground
17	SEL 68	LVDS 6/8 bit select function control, Low or NC → 6 Bit Input Mode. High → 8 Bit Input Mode. Note
18	NC	NC
19	RxIN4-	NC in 6 bit input mode.
20	RxIN4+	NC in 6 bit input mode.

Optical Characteristics

	Symbol	Min	Typ	Max	Unit
Contrast Ratio	CR	400	600		
Brightness	B _{white}		500		cd/m ²
LCD Transmission	T				%
Response Time	t _r	-	20	30	msec
	t _f	-	10	20	msec
Viewing Angle					
X Axis, Right	x ₊	70	80		deg.
X Axis, Left	x ₋	70	80		deg.
Y Axis, Up	y ₊	65	80		deg.
Y Axis, Down	y ₋	50	60		deg.
Outdoor Readability*					
Ambient light		10000	20000	30000	cd/m ²
Brightness gain (min)	35°	700	900	1100	cd/m ²
Brightness gain (max)	35°				cd/m ²
Reflectance (%)	35°		1-2		%

Electrical Specifications

	Symbol	Value			Unit
		Min	Typ	Max	
Backlight					
LED Input Voltage	V _L	10.8	12	12.6	V
LED Current	I _L		0.17		A
LED On Voltage (25 C)	V _O				V _{rms}
LED On Voltage (0 C)	V _O				V _{rms}
Operating Frequency	F _g	200		20K	KHz
LED Life Time	t _{LP}	50,000			hours
Power Consumption	P _w		2.04	2.14	W

	Symbol	Value			Unit
		Min	Typ	Max	
Module					
Power Supply Voltage	V _{cc}	3	3.3	3.6	V
Power Supply Current	I _{cc}		270	330	mA
Ripple Voltage	V _{pp}				mV _{p-p}
Power Consumption	P _w		0.9	1.2	W

Note: 1. Specifications are subject to change without notice.
2. Original LCD Model Spec.:AUO G084SN05-V9

*Equivalent brightness under sunlight.



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