Advanced Link Photonics, Inc.

2685 Dow Ave., Unit C, Tustin, CA 92780
Tel: (714)730-6728; Fax: (714)730-3667, Email: mswang@alpincorp.com

Specifications Sheet

RoHS

All products are RoHS compliant.

7121P5A09N031N

12.1" Sunlight Readable LCD with Rugged Touch Panel and High Bright LED Backlight

Please check out our website: www.alpincorp.com

General Specifications

Module Size	261.0(H)×204.5(V)×12.17(D) mm
Display Area	245.76(H)×184.32(V) mm
Driver Element	a-si TFT Active Matrix
Pixel Number	1024×RGB×768
Pixel Pitch	0.24(H)×0.24(V)
Interface Connector	JAE FI-XB-XB30SRL-HF11
Back Light Interface	JST-2.0/2C
Pixel Arrangement	RGB Vertical Strips
Display Colors	262,144 colors
Surface Treatment	High Efficiency AR coating (Hardness >3)
Operating Temp	-30 °C - 70 °C
Storage Temp	-40 °C - 80 °C
Weight	660 g (Max.)

Optical Characteristics

	Symbol	Min	Typ.	Max.	Unit
Contrast Ratio	CR	500	700		
Brightness (Day mode)	B_{white}		1000		cd/m^2
LCD Transmission	T				%
Response Time(Rise)	t_r		6	11	msec
(Decay)	t_r		17	22	msec
Viewing Angle					
X Axis, Right	x_+	-	80		deg
X Axis, Left	x_-	70	80		deg
Y Axis, Up	y_+	70	80		deg
Y Axis, Down	y_-	70	80		deg

Pin Assignments

Pin	Symbol	Description
1	VCC_IN	Power Supply (5.0V/3.3V)
2	VCC_IN	Power Supply (5.0V/3.3V)
3	GND	Ground
4	GND	Ground
5	RX0-	Differential Data Input, CH0 (Negative)
6	RX0+	Differential Data Input, CH0 (Positive)
7	GND	Ground
8	RX1-	Differential Data Input, CH1 (Negative)
9	RX1+	Differential Data Input, CH1 (Positive)
10	GND	Ground
11	RX2-	Differential Data Input, CH2 (Negative)
12	RX2+	Differential Data Input, CH2 (Positive)
13	GND	Ground
14	CLK-	Differential Clock Input (Negative)
15	CLK+	Differential Clock Input (Positive)
16	GND	Ground
17	NA	Non-connection
18	NA	Non-connection
19	GND	Ground
20	GND	Ground

Optional Features

Touch Panel		
Size	271.0(H)×205.5(V)×2.0(D) mm	
Surface Treatment	High Efficiency AR coated C.S. Glass (>7H)	
Tail Connector	AMP	
Tail Length	190 mm	
Tail Location	9 O'Clock	
EMI Shielding	**Mesh**	**ITO**
Line Width	~20 µm	
Pitch	~300 µm	
Resistance	<0.1 Ω/sq	5~20 Ω/sq
Transmittance	>90%	~85%
Performance	50~80dB at frequencies1-1000MHz	20~50dB at frequencies 1-1000MHz
Part Number	**7121P5A09N131L**	**7121P5A09N231L**
NVIS		
NIVS Type	Type 1	
NIVS Class	Class B	
Military Standard	MIL-STD-3009	
Brightness (Night)	Down to about 3 cd/m²	
Part Number	**7121P5A09N031N**	
Heater		
Resistance	10~20 Ω/sq	
Transmittance	~85%	
Power Consumption	28 V, 30W	
Part Number	**7121P5A09N031H**	

Customization Service

If the above options are not meeting your requirements in any aspect, we can customize the parts according to your specifications, such as brightness, impact resistance, and mechanical dimensions, etc. Please call us, 714-7306728, or write to us, mswang@alpincorp.com, for further information about our extraordinary customization service.