



Advanced Link Photonics, Inc.

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Specifications Sheet



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 frequencies 1-1000MHz	20~50dB at frequencies 1-1000MHz
Part Number	7121P5A09N131L	7121P5A09N231L
NVIS		
NVIS Type	Type 1	
NVIS Class	Class B	
Military Standard	MIL-STD-3009	
Brightness (Night)	Down to about 3 cd/m ²	
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.		