



Advanced Link Photonics, Inc.

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Specifications Sheet



All products are RoHS compliant.

7104P4Z08N021N

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

Please check out our website: www.alpinacorp.com

General Specifications

Module Size	225.5(H)×176.3(V)×10.17(D) mm
Display Area	210.4(H)×157.8(V) mm
Driver Element	a-si TFT Active Matrix
Pixel Number	1024×RGB×768
Pixel Pitch	0.0685(H)×0.2055(V)
Interface Connector	JAE FI-XB-XB30SRL-HF11
Back Light Interface	JST-2.0/2C
Pixel Arrangement	RGB Vertical Strips
Display Colors	16.2M
Surface Treatment	High Efficiency AR coating (Hardness >3)
Operating Temp	-10 °C - 60 °C
Storage Temp	-20 °C - 70 °C
Weight	480 g (Typ.)

Optical Characteristics

	Symbol	Min	Typ.	Max.	Unit
Contrast Ratio	CR		1200		
Brightness (Day mode)	B _{white}		1000		cd/m ²
LCD Transmission	T				%
Response Time(Rise)	t _r		15		msec
(Decay)	t _f		10		msec
Viewing Angle					
X Axis, Right	x ₊		88		deg
X Axis, Left	x ₋		88		deg
Y Axis, Up	y ₊		88		deg
Y Axis, Down	y ₋		88		deg

Pin Assignments

Pin	Symbol	Description
1	NC	No Connection
2	GND	Ground
3	RX3+	Positive transmission data of pixel 3
4	RX3-	Negative transmission data of pixel 3
5	GND	Ground
6	RXCLK+	Positive of clock
7	RXCLK-	Negative of clock
8	GND	Ground
9	RX2+	Positive transmission data of pixel 2
10	RX2-	Negative transmission data of pixel 2
11	GND	Ground
12	RX1+	Positive transmission data of pixel 1
13	RX1-	Negative transmission data of pixel 1
14	GND	Ground
15	RX0+	Positive transmission data of pixel 0
16	RX0-	Negative transmission data of pixel 0
17	GND	Ground
18	STV	Vertical Start Pulse Output
19	GND	Ground
20	N.C.	No Connection
21	N.C.	No Connection
22	N.C.	No Connection
23	N.C.	No Connection
24	RPF	Display Rotation
25	GND	Ground
26	GND	Ground
27	GND	Ground
28	GND	Ground
29	GND	Ground
30	VCC	Power supply: +3.3V

Optional Features

Touch Panel		
Size	225.4(H)×174.0(V)×2.0(D) mm	
Surface Treatment	High Efficiency AR coated C.S. Glass (>7H)	
Tail Connector	ZIF	
Tail Length	50 mm	
Tail Location	8 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	7104P4Z08N121L	7104P4Z08N221L
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	7104P4Z08N021N	
Heater		
Resistance	10~20 Ω/sq	
Transmittance	~85%	
Power Consumption	28 V, 30W	
Part Number	7104P4Z08N021H	
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@alpinacorp.com , for further information about our extraordinary customization service.		