



Advanced Link Photonics, Inc.

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Specifications Sheet



All products are RoHS compliant.

7064P4Z09N031L

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

Please check out our website: www.alpincorp.com

General Specifications

Module Size	145.5(H)×111.5(V)×6.0(D) mm
Display Area	130.56(H)×97.92(V) mm
Driver Element	a-si TFT Active Matrix
Pixel Number	640×480×RGB
Pixel Pitch	0.204×0.204
Interface Connector	GT101-30S-HR11 or equivalent
Back Light Interface	JST-2.0/2C
Pixel Arrangement	RGB
Display Colors	6-bit,262,144
Surface Treatment	High Efficiency AR coating (Hardness >3)
Operating Temp	-30 °C - 70 °C
Storage Temp	-50 °C - 85 °C
Weight	160 g

Optical Characteristics

	Symbol	Min	Typ.	Max.	Unit
Contrast Ratio	CR	200	300		
Brightness (Day mode)	B _{white}		>500		cd/m ²
LCD Transmission	T				%
Response Time(Rise)	t _r		15	30	msec
(Decay)	t _f		30	50	msec
Viewing Angle					
X Axis, Right	x ₊	40	45		deg
X Axis, Left	x ₋	40	45		deg
Y Axis, Up	y ₊	10	15		deg
Y Axis, Down	y ₋	30	35		deg

Pin Assignments

Pin	Symbol	Description
1	GND	Ground
2	VCC	Power (3.3v)
3	VCC	Power (3.3v)
4	GND	Ground
5	DCLK	Data Input Clock
6	DE	Data Enable Signal
7	VSYNC	Vertical Sync Signal
8	HSYNC	Horizontal Sync Signal
9	GND	Ground
10	R1	Red Data 0[LSB]
11	R1	Red Data 1
12	R2	Red Data 2
13	R3	Red Data 3
14	R4	Red Data 4
15	R5	Red Data [MSB]
16	GND	Ground
17	G0	Green Data 0 [LSB]
18	G1	Green Data 1
19	G2	Green Data 2
20	G3	Green Data 3
21	G4	Green Data 4
22	G5	Green Data 5 [msb]
23	GND	Ground
24	B0	Blue Data 0 [LSB]
25	B1	Blue Data 1
26	B2	Blue Data 2
27	B3	Blue Data 3
28	B4	Blue Data 4
29	B5	Blue Data 5[MSB]
30	GND	Ground

Optional Features

Touch Panel		
Size	145.03(H)×111.0(V)×1.7(D) mm	
Surface Treatment	High Efficiency AR coated C.S. Glass (>7H)	
Tail Connector	ZIF	
Tail Length	100 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	7064P4Z09N131L	7064P4Z09N231L
NVIS		
NVIS Type	Type 1	
NVIS Class	Class B	
Military Standard	MIL-STD-3009	
Brightness (Night)	Down to above 3 cd/m ²	
Part Number	7064P4Z09N031N	
Heater		
Resistance	10~20 Ω/sq	
Transmittance	~85%	
Power Consumption	28 V, 30W	
Part Number	7064P4Z09N031H	
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.		