

MIC-D2416

24" Rugged Display with EMI Mesh & Optical Bonding

Features

- 24" LCD Display
- Operating Temperature: -20°C to +60°C
- EMI Mesh with Optical Bonding
- 700 nits Brightness
- EMI/EMC Is Designed to Meet MIL-STD-461E/F
- Shock Is Designed to Meet MIL-STD-810D
- Vibration Is Designed to Meet MIL-STD-810E

Appearance





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Revision Table

Date	Revision	Content	By
2025/9/23	0.1	First Draft	Zoe You

ACT POWER TAIWAN
Preliminary

MIC-D2416

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Specification

LCD Panel	
LCD Size	24-inch TFT
Backlight	LED
Resolution	1920 x 1080
Interface	LVDS
View Angle	± 89° (H), ±89° (V)
Luminance	700 nits (after Bonding)
Contrast Ratio	1000:1
Aspect Ratio	16:10
Response Time	14 ms
No. of Color	1.07 B
Active Area	518.4 (H) x 324 (V) mm
Pixel Pitch	0.270 (H) x 0.270 (V)
LED Life time	50,000 Hrs
EMI Mesh	Yes
Optical Bonding	Yes

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Specification

AD Board	
Support VGA Signal	Color: 24 bit / Hor. Frequency: 30-80KHz / Ver. Frequency: 50-75Hz
Support DVI/HDMI Signal	Color: 24 bit / Hor. Frequency: 30-80KHz / Ver. Frequency: 50-75Hz
Input Interface	VGA / DVI / HDMI (1.3/1.4) / USB / Audio
Output Interface	41-Pin / 0.5 mm LVDS Connector / Wafer 4-Pin 2.0 mm (R/L x1) AV Output x 1
Key Control	Power, Menu, Select, CH+, CH-, Up, Down
OSD Language	English
DC Input	DC +12V
Panel Select	DC +3.3V / +5V / +12V

Environment Compliance

Operating Temp.	-20°C to +60°C
Storage Temp.	-30°C to +70°C
Humidity	Ta=40°C, 95%RH, Non-Condensing
Shock	Design to Meet MIL-STD-810D
Vibration	Design to Meet MIL-STD-810E
EMI/EMC	Design to Meet MIL-STD461E/F

Note 1: Environmental performance may vary according to the integration method or final integration scenario.

Note 2: Follow the industrial quality standard this LCD panel will include minimum 3 bright or dead pixels on viewable area and maxium total 5 bright or dead pixels on whole LCD panel.

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Deliverables

1	24" Rugged Display with EMI Mesh & Optical Bonding
2	AD Board
3	LVDS Cable
4	Convert Board
5	Convert Board to AD Board Cable
6	Backlight Cable

Ordering Information

Model Name	Description	Unit
MIC-D2416	24" Rugged Display with EMI Mesh & Optical Bonding	1

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