

MIC-D2404

24" Resistive Touch LCD Open Frame

Features

- 24" LCD Size
- 1920 x 1200 Resolution
- Resistive Touch Screen
- AG Strengthen Touch Glass
- 350nits Brightness
- EMI Mesh, Optical Bonding
- Open Frame Design

Appearance





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Revision Table

Date	Revision	Content	By
2023/10/5	0.1	First Draft	Dennis
2024/3/7	0.2	Update Details	Dennis
2024/3/12	0.3	Update Deliverables part list part number	Dennis
2024/4/16	0.4	Update ACT-EE0010 LVDS Cable Drawings	Dennis
2024/8/21	0.5	LCD Module Revised	Dennis
2024/8/24	0.6	Amend Brightness to be 350nits	Dennis

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Specification

LCD Panel	
LCD Size	24 inch TFT
Backlight	LED
Resolution	1920 x 1200
Interface	LVDS
View Angle	$\pm 89^{\circ}$ (H), $\pm 89^{\circ}$ (V)
Luminance	350 nits (after bonding)
Contrast Ratio	1000:1
Aspect Ratio	16:10
Refresh Rate	≥ 60 Hz
Response Time	14 ms (Typ.)
No. of colour	16.7 Million (8 bit/colour)
Active Area	518.4 (H) x 324 (V) mm
Pixel Pitch	0.27 (H) x 0.27 (V) mm
LED Life time	50,000 hrs
Touch Screen	
Touch Type	5-Wire Resistive Touch
Active Area	519.4 (H) x 325 (V) mm
Touch Interface	USB
Touch Glass	AG Strengthen Glass
EMI Mesh	Yes, EMI protective mesh with provision for 360° electrical grounding and 90% visibility to be provided
Optical Bonding	Yes
Touch Drives	Support Windows, Linux, Mac, etc.

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Accessories	
Boards	USB Touch Control Board
Cables	Touch Control Board Cable
Bezel Design	As per drawings shown

Environment Compliance

Operating Temp.	-10±3°C to +60±5°
Storage Temp.	-20±3°C to +70±5°
IP Rating	IP67 Front Bezel, IEC 60529, Current BOM does not include keypad & speaker. IP67 is subjected to front panel
Humidity	Ta≤40°C, 95%RH, non-condensing
Dust	Design to subject to JSS 55555, Test No.14 Duration 1 Hour
Shock	Design to subject to JSS 55555, Test No. 24, Procedure 2, Test Condition A. Pulse shape: half sine wave peak acceleration 50g Pulse duration: 11msec 3 shocks on each direction of 3 axis
Vibration	Design to subject to JSS 55555, Test No.28. Freq range: 5 to 33Hz, Amplitude: ± 0.125mm, Constant Displacement, No. of axes: X, Y, Z Duration: 1 hour in each axis
EMI/EMC	Design to meet MIL-STD461E/F

Note 1:Open Frame design only covers parts of the front bezel and back housing, the performance may vary upon mating parts.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 Parts List

Item	Part No.	Description
1	MIC-D2404	24" Resistive Touch LCD Open Frame
1.1	ACT-ME0001	24 inch Bezel
1.2	ACT-ME0002	BEL LOGO Size 18
1.3	ACT-ME0003	CAP-1 (4 nos)
1.4	ACT-ME0004	CAP-2 (4 nos)
1.5	ACT-ME0005	Double D Rubber
1.6	ACT-ME0006	Retainer Plate 24" Panel PC
1.7	ACT-ME0007	Retainer Rubber Pad
1.8	ACT-EE0005	24" LCD Module with EMI mesh & Optical Bonding, Res Touch
1.9	ADM-H0202	USB Touch Control Board
1.10	ACT-C0010	Touch Control board Cable

Ordering Information

Model Name	Description	Unit
MIC-D2404	24" Resistive Touch LCD Open Frame	1

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