



Product Specifications:

LCD Module	
LCD Size	21.5" TFT LCD
Backlight	LED
Resolution	1920 x3(RGB) x 1080 Pixel
View Angle	± 89° (H), ±89° (V)
Interface	Dual Channel LVDS
Luminance	400 cd/m2 (Typ)
Contrast Ratio	5000:1 (Typ)
Response Time	25 ms
No. of Color	16.7M colors (RGB 8-bits)
Active area	476.64 (H) X 268.11 (V) mm
Pixel Pitch	248.25 (per one triad) x 248.25
LED Life Time	50,000Hrs
Power Consumption	18.14 W (Typ.) (VDD line:3.5 W, all black pattern; LED=14.64 W)

Optical Bonding	
Optical Bonding	Yes
EMI Mesh	Yes, EMI Protective mesh with provision for 360° Electrical grounding and 90% Visibility to be provided
Tempered Glass	3mm Thickness, ≥ 5H with AG/AR/AF surface treatment.

Reliability and Environmental Specifications	
Operating Temperature	-20°C to +70°C
Storage Temperature	-30°C to +80°C
Humidity	Operating: 95%, @ 40 °C non-condensing
EMI/EMC	EMI Protective Mesh with 360° electrical connectivity design to meet MIL-STD461E/F
Dust	Design to comply with JSS 55555, Test No.14 Temperature: 40°C ± 3°C Relative Humidity: <50% Duration of spray dust: 1 hour
Vibration	Design to comply with JSS 55555, Test No. 28, 5 to 13 Hz ± 6 mm constant displacement, 13 to 500 Hz: ±40 m/s ² constant acceleration, Duration: 2 hours each on all 3 axes
Altitude	Design to comply with JSS 55555, Test No. 3, Procedure 1, Test condition L1, -20°C ± 3°C, A2: 3000 m, 70 kPa Duration: 16 hrs
Bump	Design to comply with JSS 55555, Test No. 5, No. of bumps: 4000 ± 10 at 25 g Pulse duration: 6 ms Pulse shape: half sine wave Repetition rate: 1–3 bumps/sec Attitude: Normal
Menu Keys	Refer pg. 22 and pg. 23 for dimensions and specifications. 1. EMI mesh with 360° electrical conductivity design to meet MIL-STD-461E and IP67 between menu key and bezel. 2. Menu keys have a LED backlight.

Note: Arrangement of all necessary parts and accessories for demonstration and qualification test will be provided if required.