



## 21.5 inch Rugged Slim

### Product Specification :

The Following are general specifications at the Module.

LCD Module	
LCD Size	21.5" TFT LCD
Backlight	LED
Resolution	1920 x 3(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

<b>Optical Bonding</b>	
Optical Bonding	Yes
EMI Mesh	EMI Protective mesh with provision for 360 deg. Electrical grounding and 90% visibility.
Tempered Glass	3mm Thickness, >5H With AG/AR/AF Surface Treatment

<b>Reliability &amp; Environment Specification</b>	
Operating Temp.	-20°C to +70°C (*)
Storage Temp.	-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 <sup>2</sup> Constant Acceleration, Duration : 2 Hours Each On All 3 Axes
Altitude	Design To Comply With JSS 55555, Test No 3 Procedure 1, Test Conditions 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 25g 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 EMI Mesh With 360° Electrical Conductivity Design To Meet MIL-STD-461E And Ip67 Between Menu Key And Bezel Menu Keys Have LED Backlight

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