

7- Inch Capacitive Touch LCD Display Module

The KIPL 26-6455NF 7-Inch Capacitive Touch LCD Display Module is a compact display solution designed for applications requiring high-resolution visual output and touchscreen interaction. It features a 7-inch a-Si TFT LCD with 1280 × 800 WXGA resolution, 16.7M true 8-bit colours and a 16:10 aspect ratio.

The display provides 700 cd/m² luminance after optical bonding and is specified as sunlight readable. It features an LVDS interface, 85° viewing angles in all directions and a 50,000-hour minimum LED life.

For user interaction, the module incorporates a capacitive touchscreen with 10-point multi-touch, USB interface and 26H strengthened glass. Optical bonding and an EMI protective mesh with provision for 360° electrical grounding and 85% visibility support integration into demanding display applications.

The module is designed for operation from -20°C to +70°C, with storage from -30°C to +80°C, and supports humidity conditions of 90% RH at Ta ≥60°C. EMI/EMC and environmental requirements are specified according to the supplied design and testing requirements.

Key Features :

- 7-inch WXGA TFT LCD with 1280 × 800 resolution, 16.7M true 8-bit colours and 700 cd/m² sunlight-readable brightness.
- 10-point capacitive multi-touch with USB interface, Windows/Linux/Mac support and 26H strengthened glass.
- Optical bonding and EMI protective mesh with provision for 360° electrical grounding and 85% visibility.
- Compact LVDS display module with 50,000-hour minimum LED life and operation from -20°C to +70°C.

Technical Specifications :

Product Code	KIPL 26-6455NF
Display Size	7-Inch a-Si TFT LCD
Display Technology	a-Si TFT LCD
Resolution	1280(RGB) × 800 pixels (WXGA)
Backlight	LED
Display Interface	LVDS
Luminance	700 cd/m² after optical bonding, sunlight readable
Viewing Angle	85° / 85° / 85° / 85°
Contrast Ratio	800:1
Aspect Ratio	16:10
Response Time	35 ms (Typical)
Display Colours	16.7M (True 8 Bit)
Active Area	149.76(H) × 93.60(V) mm
LED Life	50,000 hours minimum
Overall Size	176.78(H) × 123.46(V) × 6.70(D) ±0.5 mm
Touch Technology	Capacitive Touch
Touch Interface	USB (5V)
Touch Driver Compatibility	Windows, Linux, Mac, etc.
Touch Glass	26H Strengthened Glass
Multi-Touch Support	10-Point Multi-Touch
Optical Bonding	Yes
EMI Mesh	EMI protective mesh with provision for 360° electrical grounding and 85% visibility
Operating Temperature	-20°C to +70°C
Storage Temperature	-30°C to +80°C
Humidity	Ta ≥60°C, 90% RH
EMI/EMC	EMI protective mesh with 360° electrical connectivity design to meet MIL-STD-461E/F
Dust Test	Design subject to JSS 55555, Test No. 14, Duration 1 Hour
Deliverable	Assembled 7-Inch LCD Display with Capacitive Touch