

7-Inch FHD Rugged Capacitive Touch Display module

The Keetronics 7-Inch Capacitive Touch LCD Display Module is a compact display solution designed for industrial HMI and embedded applications requiring clear visibility, responsive touch operation, and reliable performance across demanding environmental conditions.

The module features a 7-inch TFT LCD with 1024 × 600 pixel resolution, LED backlighting, 16.7 million colors, & 1000 cd/m² luminance for enhanced screen visibility. The display uses an LVDS interface and provides a typical response time of 30 ms.

For user interaction, the module integrates a Projected Capacitive (PCAP) touch screen with support for 10-point touch. The touch panel uses strengthened AG/AR/AF glass with ≥7H surface hardness, 3 mm glass thickness, and ≥85% transparency.

The LCD and capacitive touch screen are combined through optical bonding, helping create a compact integrated display assembly. With an operating temperature range of -30°C to +85°C and storage temperature range of -40°C to +90°C, the module is designed for applications requiring dependable operation across a wide temperature range.

The assembled module is suitable for industrial control panels, embedded HMI systems, operator interfaces, equipment displays, and other applications requiring an integrated touchscreen display solution.

Key Features :

- 7-inch TFT LCD with 1024 × 600 resolution and 1000 cd/m² luminance for clear display performance
- 10-point projected capacitive touch with AG/AR/AF strengthened glass and ≥7H surface hardness
- Optically bonded LCD and touch assembly with compact 9.60 mm overall thickness
- Wide -30°C to +85°C operating temperature range for demanding industrial and embedded applications

Technical Specifications :

Product Code	KIPL 26-6472DF
Display Type	7-inch TFT LCD
Resolution	1024 × 600 pixels
Backlight	LED
Luminance	1000 cd/m²
View Angle	±85° (H), ±85° (V)
Interface	LVDS
Response Time	30 ms (Typical)
Number of Colors	16.7M (True 8-bit)
Active Area	154.21 (H) × 85.92 (V) mm
Pixel Pitch	0.1506 (W) × 0.1432 (H) mm
LED Life Time	30,000 hours (Minimum)
Overall Dimensions (L × W × D)	173.5 × 111.6 × 9.60 mm
Touch Technology	Projected Capacitive (PCAP)
Touch Viewable Area	154.81 (H) × 86.52 (V) mm
Touch Glass	AG/AR/AF Strengthened Glass
Glass Surface Hardness	≥7H
Glass Thickness	3 mm
Touch Interface	FPC (COF)
Touch Points	10-point touch
Transparency	≥85%
Touch Control IC	ILI2117A
Optical Bonding	Yes
Operating Temperature	-30°C to +85°C
Storage Temperature	-40°C to +90°C
Humidity	Operating: 90% @ 60°C, non-condensing
Deliverable	Assembled 7-inch LCD Display with Capacitive Touch