

# 7.0" Capacitive Touch LCD (HMI) - Technical Datasheet

## Product Overview

The 7.0" Capacitive Touch LCD (HMI) Module is a high-performance display solution designed for human-machine interface applications. Featuring a 1024x600 high-resolution TFT LCD with capacitive multi-touch support, it delivers excellent clarity, responsiveness, and durability. With customizable interfaces (USB, I2C, SPI, LVDS) and optional cover glass or optical bonding, this module is ideal for use in industrial, medical, retail, and smart terminals.

## Technical Specifications

Item	Specification
Display Size	7.0 inch
Resolution	1024 x 600 pixels
Display Type	TFT LCD
Touch Panel	Projected Capacitive (Multi-touch)
Viewing Angle	85/85/85/85 (L/R/U/D)
Brightness	300-800 cd/m² (customizable)
Interface	USB / I2C / SPI / LVDS
Touch Interface	USB / I2C / SPI
Operating Voltage	3.3V / 5V
Touch IC	GT911 / FT5436 / ILITEK or custom
Operating Temperature	-20°C to +70°C
Storage Temperature	-30°C to +80°C
Outline Dimensions	Approx. 165 x 100 mm
Viewing Area	Approx. 154 x 86 mm
Customization	Cover glass, logo, brightness, thickness

## Application Scenarios

- Industrial automation HMIs
- Medical equipment interfaces
- Smart home control panels

## **7.0" Capacitive Touch LCD (HMI) - Technical Datasheet**

- Automotive infotainment systems
- POS and vending machines
- Education and multimedia terminals