

Technical Datasheet - 10.1" Capacitive Touch LCD Module

1. Product Overview

The 10.1" TFT LCD module integrates a high-brightness IPS display with a capacitive touch panel. It is ideal for POS, kiosk, industrial, and embedded applications requiring responsive touch performance and durability.

2. Features

- Size: 10.1 inch IPS TFT display
- Resolution: 1280x800 / 1024x600
- Touch: 10-point capacitive
- Brightness: 800-1000 nits (sunlight readable)
- Interface: HDMI for video, USB for touch
- Viewing angle: 85/85/85/85
- Operating temperature: -20C to +70C
- Customization: Cover glass, brightness, FPC shape, interface, logo printing

3. Electrical Specifications

Operating Voltage	5V (USB powered)
Power Consumption	< 6W
Touch Interface	USB HID (plug & play)
Display Interface	HDMI
Backlight Lifetime	>= 30,000 hours
Touch Response Time	< 10 ms

4. Mechanical Dimensions

Module Size	229.46 x 149.1 x 5.45 mm
Active Area	216.96 x 135.6 mm
Touch Panel Type	G+G (Glass + Glass)
Cover Glass	Optional, 1.1-3.0mm thick
Mounting Holes	Available (see drawing)

5. Interface Description

- HDMI - Standard digital video input
- USB - Touch data interface (HID compliant)

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- Optional - LVDS, I2C, or UART upon request

6. Environmental & Reliability

Operating Temp	-20 degreesC ~ +70 degreesC
Storage Temp	-30 degreesC ~ +80 degreesC
Humidity	10% ~ 90% RH (non-cond.)
ESD Protection	Contact ±6KV, Air ±8KV
Vibration Test	10~55Hz, 1.5mm amplitude

7. Application Scenarios

- Self-service Kiosks
- POS Terminals
- Vending Machines
- Industrial Control Panels (HMI)
- Smart Home & IoT Control Systems
- Medical Device Displays

8. Customization Options

- Screen Size (7~32 inch optional)
- Brightness adjustment (300-1500 nits)
- Touch type (capacitive / resistive)
- Logo & silk screen printing
- Interface change (LVDS, RGB, etc.)
- Anti-glare, anti-fingerprint coatings

9. Packaging & Shipping

- Standard ESD-safe anti-static bag
- Foam protection + inner box
- Export carton with label (optional pallet)
- Lead time: 7-15 days (stock) / 25-30 days (custom)
- MOQ: 1 unit (sample) / 100 units (batch)

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10. Contact Information

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