Industrial Touch Display Module CAD Drawing Requirements

Mechanical and interface checklist for LCD + PCAP module matching

Revision: Draft v0.1 | Application: LCD + PCAP module matching for host board, enclosure and mounting review

Accepted file inputs

- Preferred: enclosure drawing plus LCD opening and mounting position in PDF, DWG, DXF, STEP or STP.
- Also useful: mainboard connector drawing, display cable drawing, FPC routing sketch and final product photo.
- If CAD is not ready, send target size, cutout, mounting idea and interface requirement.

Required module dimensions

Item | What to define | Why it matters

Outer dimension | Full module outline and depth | Confirms enclosure fit and service space.

Active area | LCD active display area | Prevents UI cropping and visible mismatch.

Viewing area | Bezel or window opening | Controls black border and cover glass print.

Mounting | Brackets, VESA, panel mount, studs or custom frame | Affects assembly strength and sealing.

Cable exit | LCD cable, touch FPC, USB cable and power cable direction | Prevents stress and interference.

Board position | Controller board and adapter board envelope | Avoids collision with mainboard and enclosure.

Interface details to mark

- Display interface: LVDS, MIPI, HDMI, RGB or other.
- Touch interface: USB HID, I2C, RS232 or custom.
- Power input, backlight control, PWM, reset, interrupt and connector model.
- Cable length and shielding needs, especially near motors, relays and power supplies.

Tolerance and assembly review

- Define acceptable tolerance for opening, mounting holes, glass edge and module depth.
- Confirm whether the module is serviceable after installation.
- Check whether optical bonding changes module thickness, heat path or cover lens flatness requirement.

Drawing release checklist

- Mainboard output confirmed.
- LCD lifecycle risk reviewed.
- Touch controller and interface selected.
- Enclosure opening and mounting method frozen.
- Sample quantity and pilot batch quantity confirmed.

Notes

Document status: Draft for RFQ screening. Final specifications depend on drawing review, LCD availability, controller selection and validation tests.

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