

Industrial Touch Display Module Datasheet

Integrated LCD + PCAP modules for embedded HMI, kiosk and control-panel systems

Revision: Draft v0.1 | Application: Embedded HMI, kiosk, EV charger, medical equipment and industrial control-panel projects

Best-fit projects

- OEM equipment that needs LCD, PCAP touch, controller and front stack matched as one module.
- Embedded HMI, industrial controller, medical equipment, kiosk, EV charger and control panel.
- Projects where LVDS, MIPI, HDMI, RGB, USB HID or I2C interface compatibility must be reviewed early.
- Long-term availability and repeatable small batch or annual production supply.

Core specifications

Parameter | Standard direction | Project options | RFQ notes

Display size | 7, 10.1 and 15.6 inch common | 4.3 to 75 inch by project | Confirm active area and housing envelope.

Resolution | 1024x600, 1280x800, 1920x1080 typical | Panel selection by lifecycle | Match host timing and display interface.

Brightness | 350 to 700 nits | 1000 nit class and optical bonding | Needed for semi-outdoor and public terminals.

Display interface | LVDS / MIPI / HDMI | RGB or adapter board options | Confirm connector, cable length and power.

Touch interface | USB HID / I2C | RS232, custom FPC pinout | Confirm OS, driver and grounding method.

Cover glass | 0.3 to 6.0 mm | AG / AR / AF, strengthened glass, logo print | Match bezel, gasket and cosmetic target.

Assembly | LCD + PCAP + cover glass | Optical bonding, controller board integration | Review depth, heat and service access.

Engineering support

- LCD lifecycle and alternative panel review for long-term availability.
- EMC/ESD attention around cable routing, metal frame, shield and controller placement.
- Interface review for LVDS, MIPI, HDMI, RGB, USB HID and I2C before sampling.

Quality and compliance support

- ISO-controlled assembly flow, touch test, display inspection and visual check.
- CE / RoHS documentation support for European OEM project files.
- Factory photos, test proof and project-specific documentation can be shared on request.

Fast RFQ checklist

- Display size, resolution, brightness target and display interface.
- Touch interface, host OS, mainboard model and cable length.
- Enclosure drawing, mounting method, cover glass requirement and annual volume.
- Operating temperature, EMC risk, sunlight exposure and lifecycle requirement.

Notes

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

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