01 / PANEL OVERVIEW

10.1-inch HD-class LCD

Display Technical Brief

16:10 raster in landscape; source lists native portrait.

PANEL CLASS	NATIVE RASTER	FRAMEMORY REFERENCE
10.1 in	**800 × 1280**	**10P / 10C**

Display and optical profile

Panel technology	Normally black TFT
Brightness	300 cd/m² typ.; 250 min. (center)
Contrast ratio	1000:1 typ.; 800:1 min.
Viewing angle	80° typ. each direction (CR ≥ 10)
Color	56% typ.; 52% min. NTSC
Active area	135.36 × 216.58 mm
Module outline	143.00 × 228.60 × 2.60 mm (±0.20)
Temperature	−10 to +50 °C operating; −20 to +60 °C storage

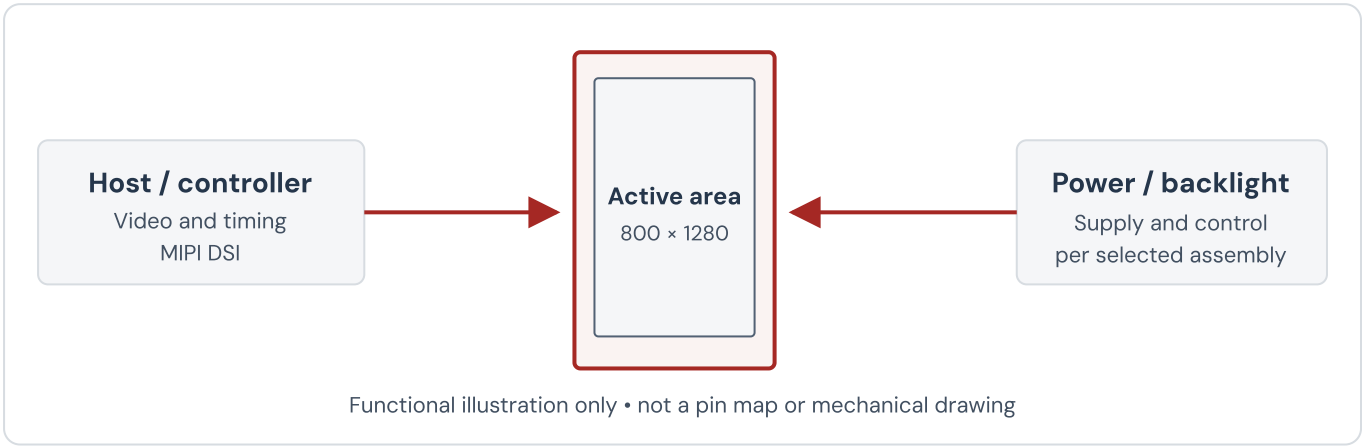
Selection note

> Do not reuse the 10S panel profile. The outline is shared, but native raster, logic assumptions and LED load differ.

02 / ENGINEERING INTEGRATION

Interface and integration

Use the component notes to plan an enclosure and host review on the exact assembled configuration.



Functional illustration only • not a pin map or mechanical drawing

Electrical and connection profile

Video	MIPI DSI · 4 lanes default; 3-lane mode listed
Connector	40 contacts; 0.50 mm pitch
Touch	Not specified by panel source
Timing	60 Hz listed; hold pixel clock and blanking for confirmation
Power / backlight	180 mA typ.; 11.6–13.6 V listed at 25 °C

Before design release

Host setup
Confirm interface mode, mapping and initialization on the target controller.

Mechanical fit
Check connector access, flex bend and tolerance stack in the assembled enclosure.

Scope: LCD component, not a finished Framemory device specification. Listed limits and typical values are not acceptance criteria; verify against the approved assembly and its controlled documents.