

1. Overview/Application

PS049FH1 -M02 is a 0.49 inch diagonal, FHD resolution (1920×1080), active matrix color OLED (Organic Light Emitting Display) panel module based on single crystal silicon backplane. The pixel circuits and driving IC are integrated on the silicon backplane to get the compact size and very low power consumption.

2. General Description

- Small-size, high resolution 0.49" FHD Display
- AP Operated Resolution 1920×1080 PPI=4522
- Frame rate supports 50~100Hz
- Normal operation supports full color mode , 16.7M colors
- Fast response
- Thin and light in weight
- Color enhancement
- High contrast
- Idle mode for save power
- Scan direction selection, up or down and right or left
- Interface

Support MIPI only or MIPI+I2C

Support VESA-DSC in-chip decoder (3X and 3.75X compression ratio)

Support scaling up 1.33 X (1440×810 to 1920×1080) and 1.5 X (1280×720 to 1920×1080) and 2 X (960×540 to 1920×1080)

- Sequential emission
- Support 8bit/10bit input pattern format

3. Module Structure

- Active matrix color OLED display with on-chip driver based on single crystal silicon transistors