

LamaPLC: ST7789 driver / TFT-LCD screen

The ST7789 is a popular single-chip controller/driver used for graphic-type TFT-LCD screens, typically featuring vibrant IPS (In-Plane Switching) technology. It is widely used in DIY electronics for its high resolution and fast communication speeds.

Key Technical Specs

- **Resolution:** Commonly 240 x 240 or 240 x 320 pixels.
- **Interface:** Uses 4-wire SPI (Serial Peripheral Interface) for high-speed data transfer.
- **Color Support:** 262K colors (18-bit) or 65K colors (16-bit).
- **Voltage:** Typically operates at 3.3V; using 5V on data pins without a level shifter can damage it.
- **View Angle:** IPS versions offer “full viewing angles,” meaning colors don't wash out when viewed from the side.

I²C topics on lamaPLC

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