

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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- [LamaPLC: Gas sensors](#) 2023/07/01 17:29 [gas, sensor, i2c, onewire, communication, mq-3, mq-4, mq-5, mq-6, mq-7, mq-8, mq-9, mq-135, gm-102b, gm-302b, gm-502b, gm-702b, alcohol, ch4, natural gas, smoke, lng, co, co2, lpg, h2, iso-butane, nox, nh3, benzene, town gas, formaldehyde, propane, humidity, temperature, voc, grv gas sens v2](#)
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• lamaPLC: PCF857x I/O Expander chip/modul with I ² C communication	2026/05/14 15:21	communication, i2c, pcf857x, pcf8574, pcf8574a, pcf8575, i o expander, i o extension, nxp, texas instruments
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• LamaPLC: SC16IS750 / SC16IS752: One or two serial (UART) ports from microcontroller via I ² C or SPI communication	2026/04/23 21:52	cjmcu-750, cjmcu-752, cjmcu, nxp, sc16is750, sc16is752, uart, serial, i2c, spi, modul, converter, arduino, code
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