



SMART EMBEDDED DISPLAY - 7-INCH IPS TFT LCD 1024*600 WITH CAPACITIVE TOUCH - ETEMB070016MDRAM

Features:

- 16:9 7.0-inch 1024*600 resolution IPS TFT display module
- 16.7M colors
- Brightness: 850 nits with capacitive touch screen
- Industrial Interface: Ethernet (10/100 Base), USB, RS485, RS232, CAN FD, I2C, SPI, GPIO
- 7-36VDC Power supply range and PoE support.
- Super Wide View: 85/85/85/85(L/R/U/D)
- The capacitive touch panel can be flexibly customized with features such as water rejection, glove support, etc.
- Arm M7 based MCU, external SDRAM and flash (up to 128 MB)

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Software

RTOS, GUI Development Software, and Initialization tool

FreeRTOS, TouchGFX, and CubeMX

Board Support Package

TouchGFX's tpa file support
Bootloader and flash-loader files

IDE

GCC, CubeIDE, IAR, and MDK-ARM

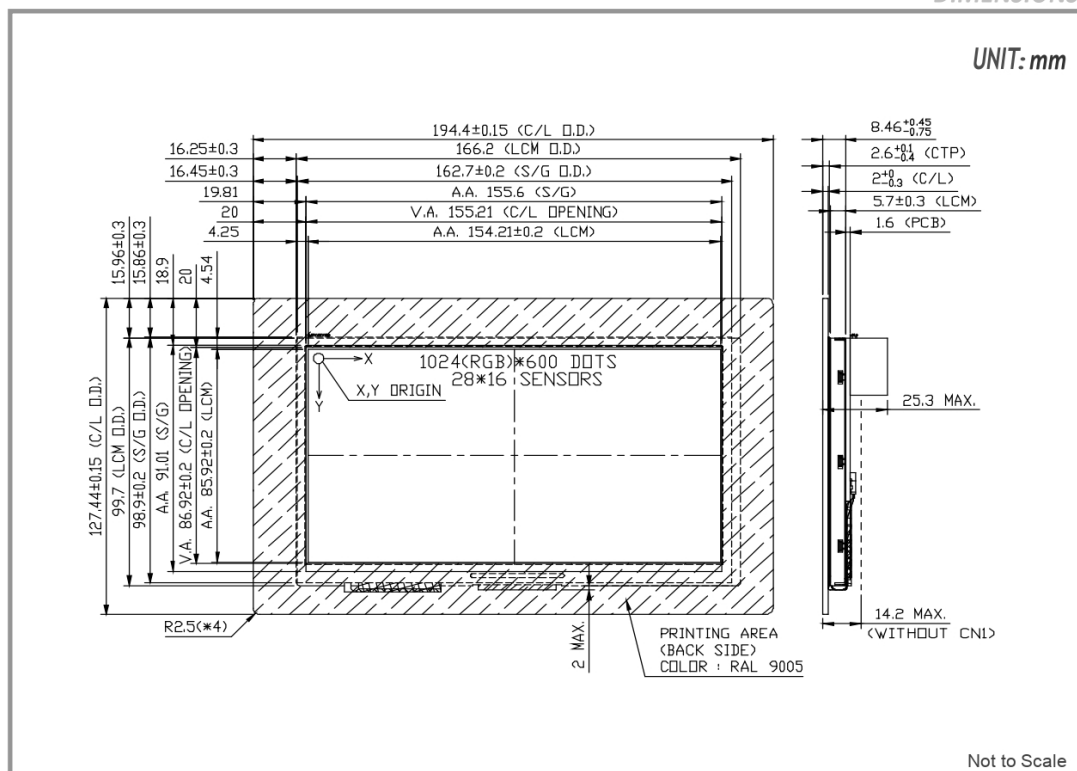
Overall

| | |
|---------------------|---|
| Size | 7.0 inch |
| Outline Dimensions | 194.4(W) x 127.44(H) x 13.7(D)(max) mm |
| Bonding Technology | Air Bonding |
| Display | |
| Color | 16.7M |
| Panel Type | IPS-TFT LCD, Transmissive, Normally Black |
| Viewing Angle | Super Wide View, 85/85/85/85 (L/R/U/D) |
| Active Area (A.A.) | 154.21(W) x 85.92(H) mm |
| Resolution | 1024RGB x 600 |
| Brightness | 850 nits |
| Viewing Area | 155.21(W) x 86.92(H) mm |
| Active Area | 154.21(W) x 85.92(H) mm |
| Dot Size | 0.0502(W) x 0.1432(H) mm |
| Pixel Size | 0.1506(W) x 0.1432(H) mm |
| Touch | |
| Type | Capacitive Touch Panel (CTP) |
| IC: | ILITEK ILI2511 |
| Structure | 2 mm chemically strengthened cover glass |
| Power Consumption | |
| Voltage | 7~36 V |
| Current | 7 V: 1335 mA 12 V: 765 mA 36 V: 270 mA |
| PoE Voltage | 48 V |
| PoE Current | 205 mA |
| Embedded | |
| MCU | STM32H750 |
| Internal SRAM | 1MB |
| External SDRAM | 16MB |
| Internal Flash | 128KB |
| External Flash | 64MB |
| Interface | |
| Power over Ethernet | Ethernet : 10/100 Base IEEE 802.3 at type 2 PD support |
| USB | Full Speed |
| CAN | CAN 2.0 and CANFD |
| UART | RS232 and RS485 |
| SPI | Support 3-wire and 4-wire |

| | |
|-----------------------|--|
| I2C | Yes |
| GPIO | 6 pins |
| Programming | SWD interface (ST-link) |
| Environment | |
| Operating Temperature | -20~70 °C |
| Storage Temperature | -30~80 °C |
| Vibration | Operating: 2.45 m/s ² (0.25g) Storage: 11.76 m/s ² (1.2g) |
| Shock | Operating: 29.4 m/s ² (3g) Storage: 490 m/s ² (50g) |
| Certification | |
| CE Certification | N/A |

ETEMB070016MDRAM | 1024(RGB) x 600

DIMENSIONS



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Browser not compatible.

