



SMART EMBEDDED DISPLAY - 7.0-INCH TN TFT LCD 800*480 WITH CAPACITIVE TOUCH - ETEMN070019ADH6L

Features:

- 16:9 7.0-inch 800*480 resolution TN TFT display module
- 16.7M colors
- Brightness: 290 nits with capacitive touch screen
- Industrial Interface: USB, RS485, RS232, CAN, I2C, SPI, GPIO
- 7-36VDC Power supply range.
- Super Wide View: 70/70/50/70(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

165.5(W) x 100.3(H) x 12.5(D)(max) mm

Bonding Technology	Air Bonding
Display	
Color	16.7M
Panel Type	TN-TFT LCD, Transmissive, Normally Black
Viewing Angle	Super Wide View, 70/70/50/70 (L/R/U/D)
Active Area (A.A.)	154.08(W) x 85.92(H) mm
Resolution	800RGB x 480
Brightness	290 nits
Viewing Area	156.08(W) x 88.53(H) mm
Active Area	154.08(W) x 85.92(H) mm
Dot Size	0.0642(W) x 0.179(H) mm
Pixel Size	0.1926(W) x 0.179(H) mm
Touch	
Type	Capacitive Touch Panel (CTP)
IC:	ILITEK ILI2511
Structure	0.7 mm chemically strengthened cover glass
Power Consumption	
Voltage	7~36 V
Current	7 V: 450 mA 12 V: 270 mA 36 V: 100 mA
PoE Voltage	N/A
PoE Current	N/A
Embedded	
MCU	STM32F750
Internal SRAM	320KB
External SDRAM	16MB
Internal Flash	64KB
External Flash	32MB
Interface	
Power over Ethernet	N/A
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/s² (0.25g)

Storage: 11.76 m/s² (1.2g)

Shock

Operating: 29.4 m/s² (3g)

Storage: 490 m/s² (50g)

Certification

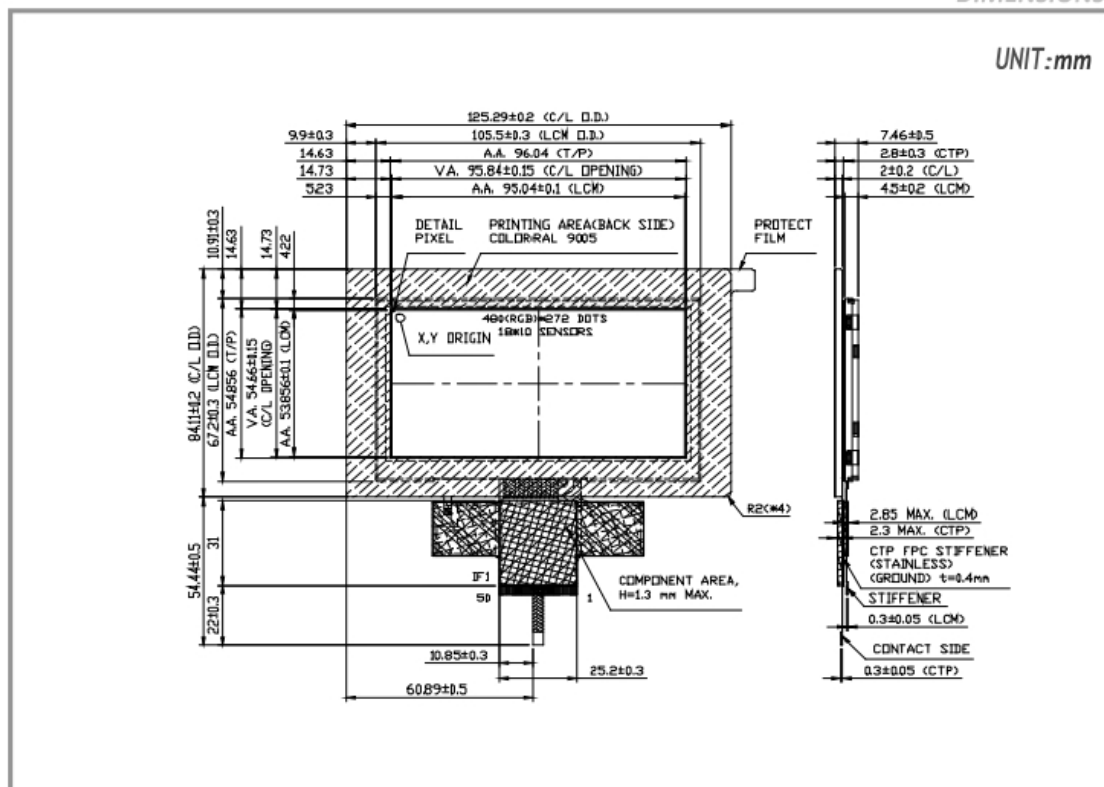
CE Certification

YES.

ETML043023UDRA | 480(RGB) x 272

DIMENSIONS

UNIT:mm



Browser not compatible.