

SMART EMBEDDED DISPLAY - 4.3-INCH IPS TFT LCD 480*272 WITH CAPACITIVE TOUCH - ETEMB043027XDRAL

Features:

- 16:9 4.3-inch 480*272 resolution IPS TFT display module
- 16.7M colors
- Brightness: 850 nits with capacitive touch screen
- Industrial Interface: FD CAN , RS485, USB(TYPE C)
- 7-36VDC Power supply range.
- 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 M33 based MCU, 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

4.3 inch

Outline Dimensions

125.29(W) x 84.11(H) x 16.6(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.)	95.04(W) x 53.86(H) mm
Resolution	480RGB x 272
Brightness	850 nits
Viewing Area	95.84(W) x 54.66(H) mm
Active Area	95.04(W) x 53.86(H) mm
Dot Size	0.066(W) x 0.198(H) mm
Pixel Size	0.198(W) x 0.198(H) mm
Touch	
Type	Capacitive Touch Panel (CTP)
IC:	MICROCHIP mXT336UD
Structure	2 mm chemically strengthened cover glass
Power Consumption	
Voltage	7~36 V
	7 V: 180 mA
Current	12 V: 110 mA
	36 V: 40 mA
PoE Voltage	N/A
PoE Current	N/A
Embedded	
MCU	STM32U599
Internal SRAM	2.5MB
External SDRAM	N/A
Internal Flash	2MB
External Flash	32MB
Interface	
Power over Ethernet	N/A
USB	TYPE C
CAN	CAN 2.0 and FD CAN
UART	RS485
SPI	N/A
I2C	N/A
GPIO	N/A
Programming	SWD interface (ST-link)

Environment

Operating Temperature

-20~70 °C

Storage Temperature

-30~80 °C

Vibration

Operating: N/A

Storage: 11.76 m/s² (1.2g)

Shock

Operating: N/A

Storage: 490 m/s² (50g)

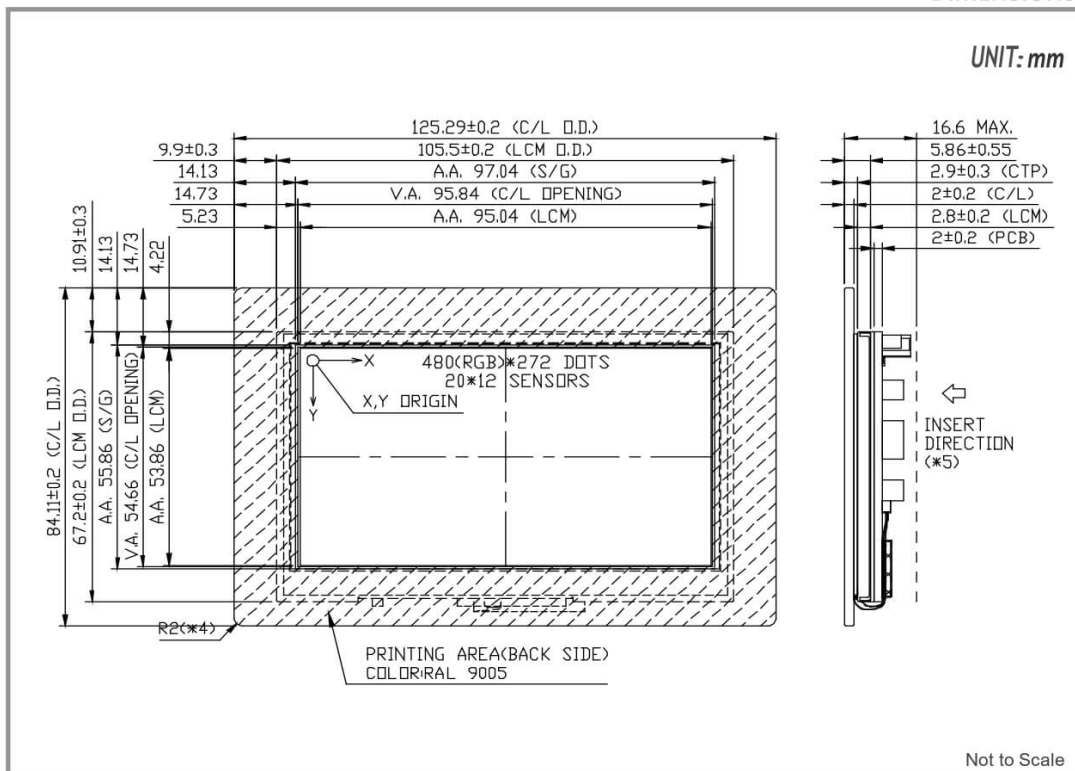
Certification

CE Certification

YES

ETEMB043027XDRAL | 480(RGB) x 272

DIMENSIONS



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Browser not compatible.