

## **SMART EMBEDDED DISPLAY - 5.7-INCH IPS TFT LCD 640\*480 WITH CAPACITIVE TOUCH - ETEMB057027XDRL**

### **Features:**

- 4:3 5.7-inch 640\*480 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

5.7 inch

#### Outline Dimensions

147.6(W) x 118.8(H) x 18.7(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.)	115.2(W) x 86.4(H) mm
Resolution	640RGB x 480
Brightness	850 nits
Viewing Area	116(W) x 87.2(H) mm
Active Area	115.2(W) x 86.4(H) mm
Dot Size	0.06(W) x 0.18(H) mm
Pixel Size	0.18(W) x 0.18(H) mm
Touch	
Type	Capacitive Touch Panel (CTP)
IC:	MICROCHIP mXT640UD
Structure	2 mm chemically strengthened cover glass
Power Consumption	
Voltage	7~36 V
Current	7 V: 545 mA 12 V: 320 mA 36 V: 110 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/s<sup>2</sup> (1.2g)

Shock

Operating: N/A

Storage: 490 m/s<sup>2</sup> (50g)

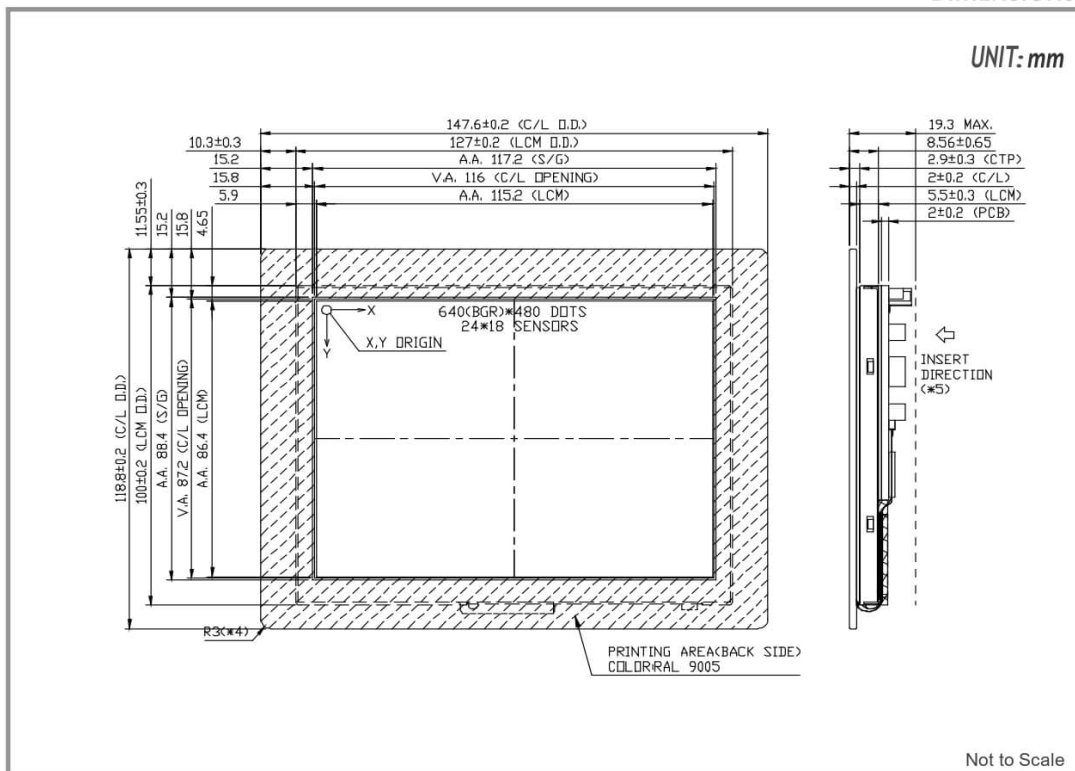
Certification

CE Certification

YES

ETEMB057027XDRAL | 640(RGB) x 480

## DIMENSIONS



www.edtc.com

Emerging Display Technologies Corp.

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Browser not compatible.