



## SMART EMBEDDED DISPLAY - 5-INCH IPS TFT LCD 800\*480 WITH CAPACITIVE TOUCH - ETEMB050013ADHAL

### Features:

- 16:10 5.0-inch 800\*480 resolution IPS TFT display module
- 16.7M colors
- Brightness: 425 nits with capacitive touch screen
- Industrial Interface: USB, RS485, RS232, CAN, I2C, SPI, GPIO
- 7-36VDC Power supply range.
- Super Wide View: 80/80/80/80(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

5 inch

#### Outline Dimensions

143(W) x 99.8(H) x 13.1(D)(max) mm

Bonding Technology	Air Bonding
Display	
Color	16.7M
Panel Type	IPS-TFT LCD, Transmissive, Normally Black
Viewing Angle	Super Wide View, 80/80/80/80 (L/R/U/D)
Active Area (A.A.)	108(W) x 64.8(H) mm
Resolution	800RGB x 480
Brightness	425 nits
Viewing Area	109(W) x 65.8(H) mm
Active Area	108(W) x 64.8(H) mm
Dot Size	0.045(W) x 0.135(H) mm
Pixel Size	0.135(W) x 0.135(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: 400 mA 12 V: 235 mA 36 V: 85 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
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<sup>2</sup> (0.25g)Storage: 11.76 m/s<sup>2</sup> (1.2g)

## Shock

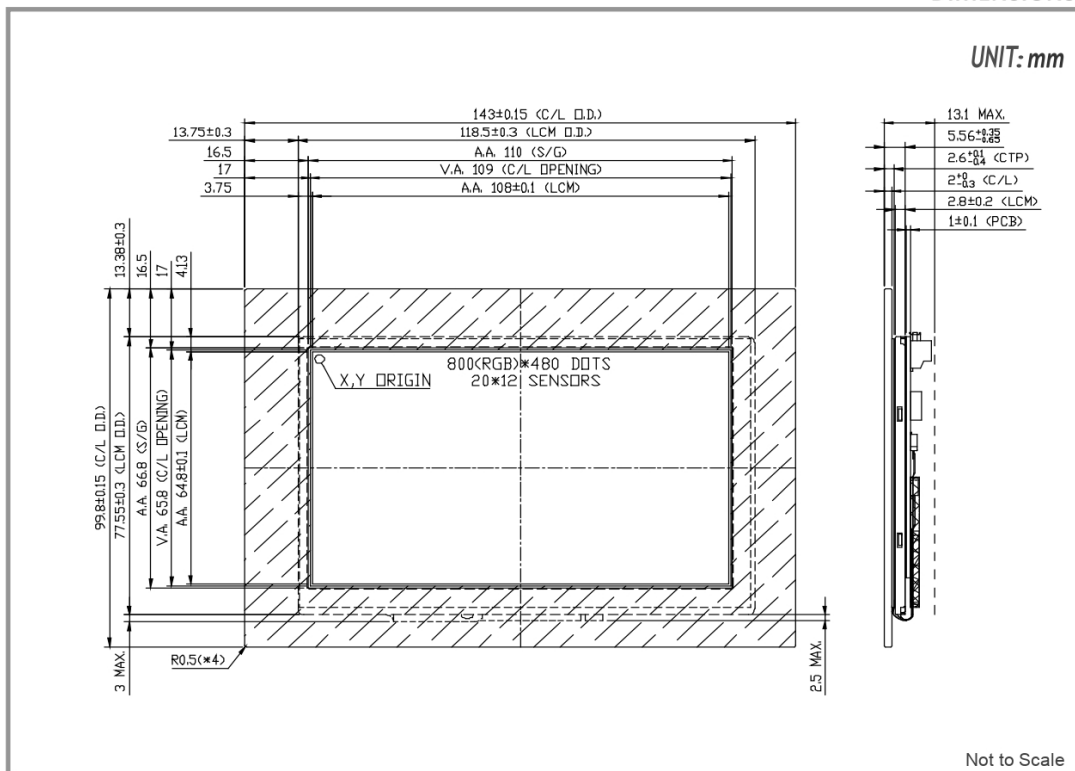
Operating: 29.4 m/s<sup>2</sup> (3g)Storage: 490 m/s<sup>2</sup> (50g)

## Certification

CE Certification

E<sub>TEMB050013ADHAL</sub> | 800(RGB) x 480

## DIMENSIONS



www.edtc.com

Emerging Display Technologies Corp.

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Browser not compatible.