

Smart Embedded\*



  
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## SMART EMBEDDED EVALUATION KIT - 7-INCH TN TFT LCD 800\*480 WITH CAPACITIVE TOUCH - EVK070019AB

### 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

194.4(W) x 127.44(H) x 13.8(D)(max) mm

#### Bonding Technology

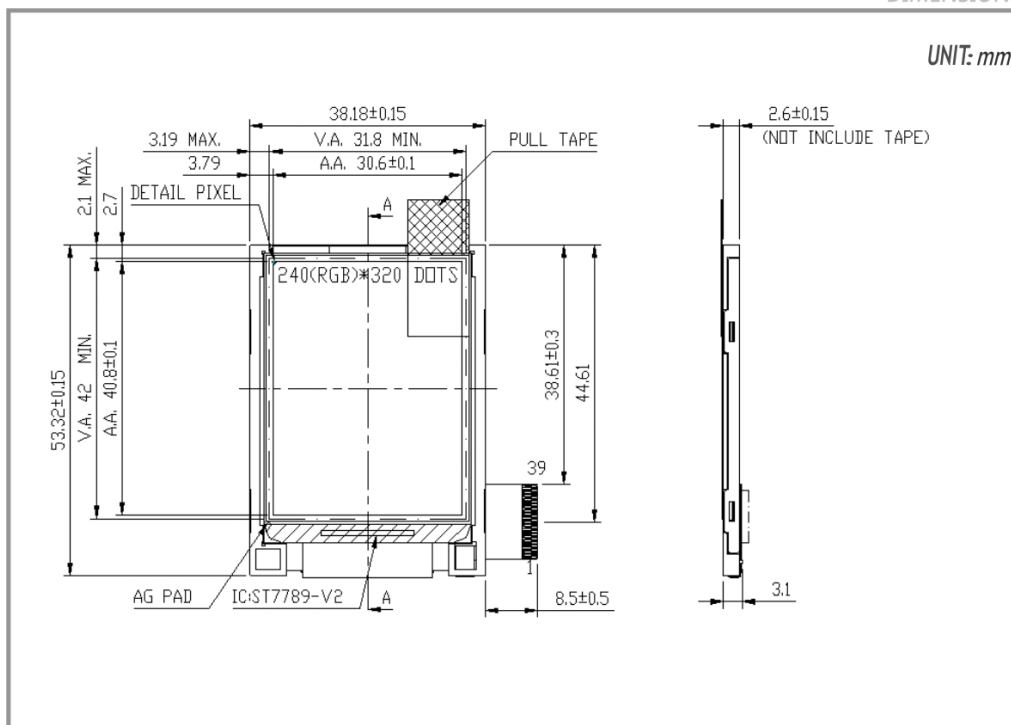
Air Bonding

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	154.88(W) x 86.72(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	2 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 Environment	SWD interface (ST-link)

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)
Accessories	ST-Link V2 with programming cable Power Supply cable
Accessories	4pcs Interface connector wires USB Memory Stick

ET020013DMA | 240(RGB) x 320

DIMENSIONS



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Not to scale  
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Browser not compatible.