



ED-MONITOR-121C

Datasheet

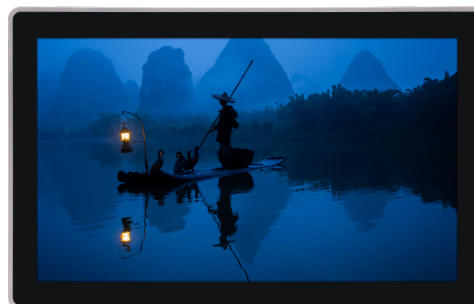
by EDA Technology Co., Ltd

built: 2024-12-20

ED-MONITOR-121C

12.1-inch Industrial Touchscreen Monitor

- 12.1" TFT, 1280x800 resolution, multi-touch capacitive touch screen
- Connect to Raspberry Pi 4 or Raspberry Pi 5
- 1 x standard HDMI for connecting to HDMI output of Raspberry Pi 4 or Raspberry Pi 5
- 1 x USB touch port (Type-C USB) for connecting to USB port of Raspberry Pi 4 or Raspberry Pi 5
- 1 stereo audio output (optional), support headphone and speaker
- 12V power input on DC Jack connector
- Support backlight adjustment via DDCUI software
- Support the official Raspberry Pi OS without driver installation
- Embedded installation, compatible with VESA standard bracket installation



Specifications

Panel I/O	
HDMI	1 x HDMI port, type A connector, connecting to HDMI output of Raspberry Pi 4 or Raspberry Pi 5.
USB	1 x Type-C USB port, connecting to the USB port of the Raspberry Pi 4 or Raspberry Pi 5 to transmit touchscreen signals.
Audio (optional)	1 x 3.5mm audio jack, stereo audio output
Speaker (optional)	1 x PA output, built-in a 4Ω 5W speaker.
Power	1 x DC Jack port, support 12V power input.

Buttons and Indicators	
PWR	1 x Red power indicator, using to check the status of device power-on and power-off.
Brightness Adjustment Button	2 x Brightness adjustment buttons for increasing and decreasing the brightness.
Volume Adjustment Button	2 x Volume adjustment buttons for increasing and decreasing the volume.
Mute Button	1 x Mute button for mute and unmute audio.

LCM	
Type	12.1" TFT

LCM	
Resolution	1280 x 800
LCM Size	279.2mm x 180.6mm
Active Area	261.12mm (H) x 163.20mm (V)
Brightness (Typ)	1000cd/m ²
Viewing Angle (Typ)	89° (L) / 89° (R) / 89° (U) / 89° (D)

Touch Panel	
Structure	G+G
Size	279.20mm(W) x 180.60mm(H)x 11.95mm(D)
Driver IC	ILI2511
Cover surface Treatment	AF

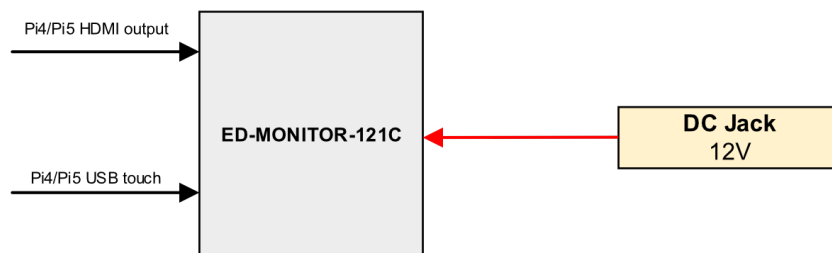
FPC	
Interface	LVDS

Backlight	
LED Qty	36pcs LED in parallel
LED Life Time	5000Hrs

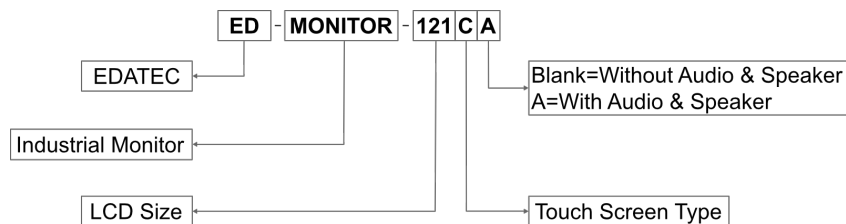
Electrical Characteristics	
Input Voltage	12V DC (±10%)

Environmental & Regulatory	
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 60°C
Ambient humidity	5% ~ 90% (non-condensing)

System Diagram



Ordering Code



Example

P/N: **ED-MONITOR-121CA**

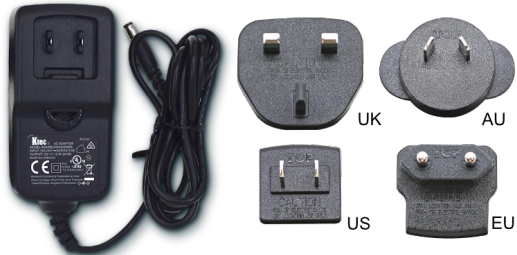
Configuration: 12.1-inch Industrial Touchscreen Monitor with audio and speaker.

Optional Accessory

You can also choose HMI Mounting Kit for embedded front installation according to actual needs.

Model	Description	Picture
ED-ACCHMI-Front	HMI Mounting Kit for Front Installation, with 4 x buckles, 4 x M4*10 screws and 4 x M4*16 screws.	

You can choose a power adapter according to actual needs.

Model	Description	Picture
ED-PSU1202-UK	100~240VAC to 12VDC/2A Adapter, with UK AC plug, 5.5mm DC plug	
ED-PSU1202-US	100~240VAC to 12VDC/2A Adapter, with US AC plug, 5.5mm DC plug	
ED-PSU1202-AU	100~240VAC to 12VDC/2A Adapter, with AU AC plug, 5.5mm DC plug	
ED-PSU1202-EU	100~240VAC to 12VDC/2A Adapter, with EU AC plug, 5.5mm DC plug	

NOTE: Each model contains only one of the UK, US, AU and EU plugs.

Packing List

- 1 x ED-MONITOR-121C Monitor