

ES-3117

17" Embedded LCD Touch Panel



CE FCC 

Features

- Open-frame architecture for embedded LCD touch panel
- 17" SXGA TFT LCD display supports 1280 x 1024 pixels
- Supports full function OSD control keys to optimize the display
- Multiple touchscreen options for different applications
- Special design for ES-200 series to attach
- Supports rear and panel mount
- Available for resistive / capacitive / SAW and infrared touch screens
- Available for direct sunlight readable LCD monitor with vandal proof IR T/S

Introduction

This embedded LCD monitor is equipped with a touchscreen input device that is mainly used for kiosk applications; it is designed without a faceplate for convenient mounting in customers' housing.

Advantech's ES-3117 series is a 17" LCD touch panel, easily configured with different touchscreens such as capacitive, resistive, SAW (Surface Acoustic Wave) infrared or strengthened glass. Its mechanical enclosure is made of strengthened steel to offer the greatest protection in harsh operating environments.

Specifications

- **I/O Ports** 15-pin D-Sub, DC power input, RS-232 port, power switch
- **Display Input Signal** Analog RGB, 0.7 VP-P/75 Ohm
- **Multi-Scan Mode** Supports VGA/SVGA/XGA/SXGA
- **Refresh Rates: FH** 30 ~ 60 kHz, FV : 56 ~ 75 Hz
- **OSD Control** Key: Provide auto-tune/menu/decrease/increase
Function: Supports Brightness/Contrast/Clock/Phase/
Horizontal Position/Vertical Position/Sharpness
- **Power** External 45 W power adaptor, with AC 100 V ~ 240 V
@ 1.2 A input and DC +12 V @ 3.75 A output
- **Dimensions (W x H x D)** ES-3117G-XA/ES-3117R-XA/ES-3117C-XA:
448 x 358 x 58.30 mm
ES-3117S-XA: 448 x 358 x 59.30 mm
ES-3117V-XA/ES-3117V-SR: 448 x 358 x 59.30
- **Weight** 4.5 kg

Environment

- **Operation Temperature** 0 ~ 45° C
- **Storage Temperature** -20 ~ 60° C
- **Humidity** 5 - 95% @ 40° C , noncondensing
- **Shock** 10 G peak acceleration (11 msec Duration)
- **EMC Approved** CE FCC
- **Safety Approved** UL

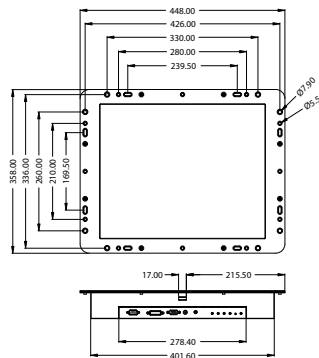
Display

- **LCD type** TFT LCD
- **Display Size** 17"
- **Panel Resolution** SXGA 1280 x 1024
- **Display Color** 262144 colors
- **Pixel pitch (mm)** 0.264 x 0.264
- **Brightness** 260 cd/m²
- **Response Time** 16 ms (typ)
- **Contrast Rate** 450: 1 (typ)
- **Viewing Angle (L/R/U/D)** 70°/70°/70°/70°
- **Backlight Lifetime** 30,000 hrs

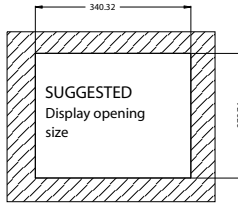
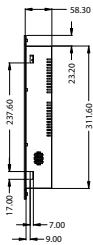
Touchscreen

Type	Analog Resistive	Capacitive	Surface Acoustic Wave	Infrared
Thickness	3 mm	3 mm	3 mm	8 mm (3 mm for temper glass)
Resolution	Continuous	1024 x 1024	4096 x 4096	4096 x 4096
Light Transmission	75%	85%	91%	91%
Controller Interface	RS-232	RS-232	RS-232	RS-232
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA	+5 V @ 60 mA	+5 V @ 150 mA
Touch Lifetime	35 million	225 million	50 million	MTBF 100,000 hours
Driver OS Support	DOS, Windows 95/98/NT/ME/2000/XP			

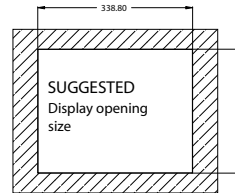
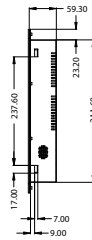
Board Diagram



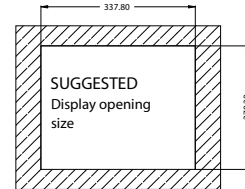
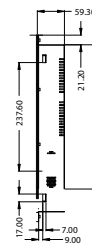
ES-3117G-XA ES-3117R-XA
ES-3117C-XA



ES-3117S-XA



ES-3117V-XA ES-3117V-SR



Ordering Information

- **ES-3117G-XA** 17" embedded LCD touchscreen with 3 mm antiglare reinforced glass
- **ES-3117R-XA** 17" embedded LCD with 3 mm resistive touchscreen
- **ES-3117C-XA** 17" embedded LCD with 3 mm capacitive touchscreen
- **ES-3117S-XA** 17" embedded LCD with 3 mm SAW touchscreen
- **ES-3117V-XA** 17" embedded LCD monitor with vandal proof infrared T/S (meets UL-60950/UL-1950)
- **ES-3117V-SR** 17" embedded sunlight readable LCD with vandal proof infrared T/S (meets UL-60950/UL-1950)