ES-2108/2208

8.4" Open Frame and Rugged Panel Mount Monitor

NEW

ES-2108   ES-2208

Features

- 8.4" LCD supports 800 x 600 pixels and wide operating temperature (-0 ~ 50° C)
- Resistive, Capacitive, SAW or IR touchscreen and 3 mm tempered glass options
- Versatile mounting brackets
- Modular architecture for efficient integration
- Special back cover designed for 3.5" / 5.25" SBCs and ARK-1000 / 3000 / 4000 series box computers
- Sunlight readable (optional)
- Ultra-high brightness up to 1000 cd/m2 with LED backlight technology (optional)
- Rugged aluminum front bezel design (ES-2208)
- VGA or LVDS interface (S-Video: optional)

Introduction

The Advantech ES-2108/2208 Embedded Open Frame and rugged panel mount monitor series offer flexible options for LCD, touchscreen, signal interface and chassis mounting. The back cover has mounting holes for industry standard 3.5" or 5.25" SBCs; or Advantech DSA-2102, DSA-3400 digital signage player, DVS-355 mobile digital video platform, and ARK-1000/ ARK-3000/ ARK-4000 series embedded box computers. The series supports panel and VESA mounting, and is supplied with four versatile mounting brackets for different integration applications. The Advantech Display Solutions Selection Wizard (http://www.advantech.com.tw/ePlatform/DS/DisplaySolution.asp) enables easy selection of model numbers by choosing the required options.
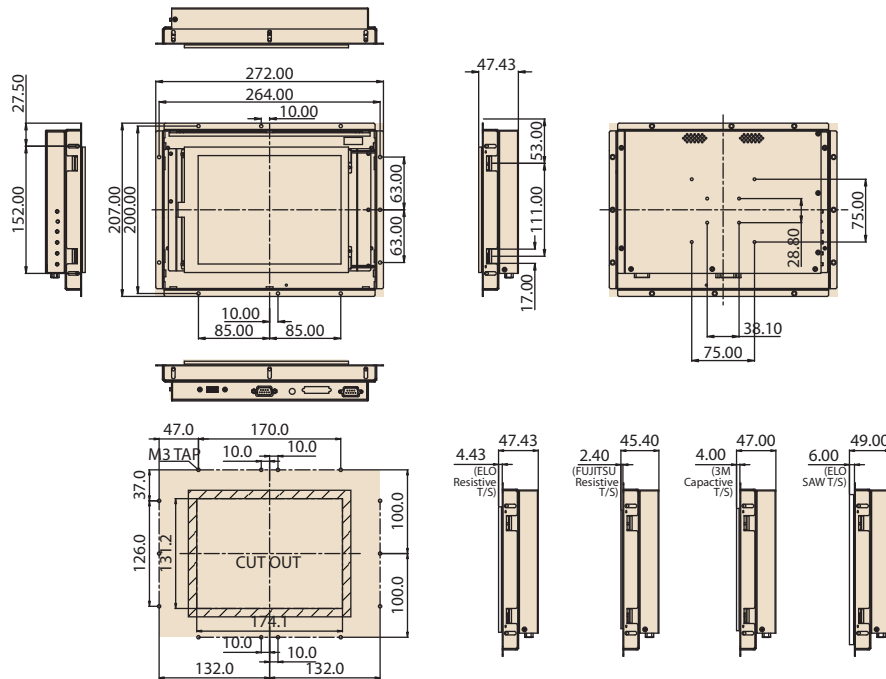
Specifications

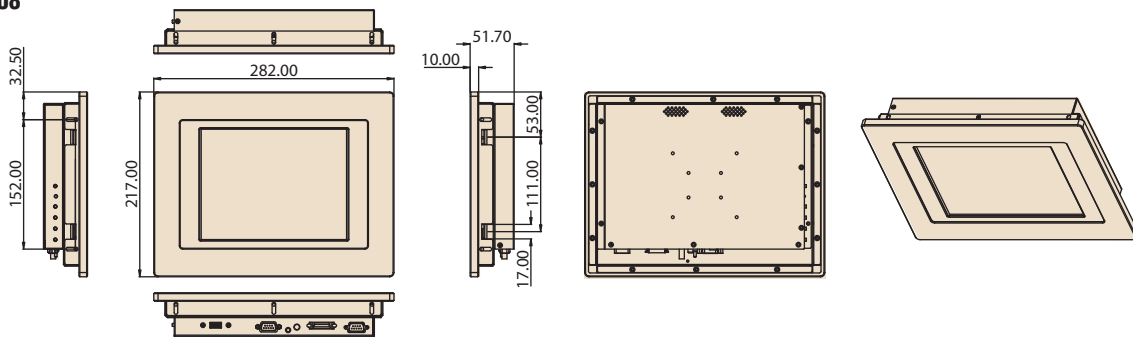|				
Processor System	I/O Ports	15-pin D-sub, DC power input, RS-232 port, Power Switch and OSD keys (Auto-tune, menu, decrease, increase)		
	Display Input Signal	Analog RGB, 0.7 VP-P / 75 0hm, optional LVDS		
	Multi-Scan Mode	Multi-Scan Mode supports VGA, SVGA		
	OSD Control	Keys: Auto-tune, menu, decrease and increase Functions: Brightness, Contrast, Clock, Phase, Horizontal Position, Vertical Position and Sharpness		
	Power	External 50 W power adapter, with AC 100 ~ 240 V input and DC +12 V @ 4.16 A output		
	Dimensions (W x H x D)	Please refer to the product dimension diagram on next page		
	Weight	ES-2108: 2.8 kg / 6.17 lb ES-2208: 3.5 kg / 7.72 lb		
Environment	Operating Temperature	(-20 ~ 70° C optional) (-4 ~ 158° F optional)		
	Storage Temperature	-20 ~ 60° C (-4 ~ 140° F) for standard LCDs		
	Humidity	5 ~ 95% @ 40° C, non-condensing		
	Shock	10 G peak acceleration (11 ms duration)		
	EMC Approved	CE FCC		
Display	Feature	Standard / (OEM)	Sunlight Readable	Real Transflective
	Size	8.4"	8.4"	8.4"
	Resolution (pixels)	800 x 600 SVGA	800 x 600 SVGA	800 x 600 SVGA
	Number of Colors	262 K	262 K	262 K
	Viewing Angle (L/R/U/D)	60°/60°/60°/40°	70°/70°/60°/60°	65°/65°/60°/50°
	Brightness (cd/m2)	450	450	480
	Contrast Ratio	500:1	500:1	500:1
	Response Time (ms)	35	35	6
	Lamp Life (hrs)	50,000	50,000	50,000
	Long-term Support	Yes	Yes	Yes
	Anti-reflection	N/A	Yes	Yes
Touchscreen	Type	Analog Resistive	Capacitive	SAW	Infrared
	Thickness	2.67 mm	3.0 mm	3.0 mm	N/A
	Resolution	4096 x 4096	1024 x 1024	4096 x 4096	N/A
	Light Transmission	80%	85%	92%	N/A
	Controller Interface	RS-232/USB	RS-232	RS-232/USB	N/A
	Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA	+5 V @ 75 mA	N/A
	Durability (Touches)	35 million hrs	225 million hrs	50 million hrs	N/A
	Driver OS Support	DOS, Linux, Mac, Windows 95/98/NT/ME/CE/2000/XP			

Dimensions

Unit: mm

ES-2108

ES-2208

Ordering Information

P/N	Type	Brightness (cd/m2)	Interface	Touchscreen	Touch Interface	Anti-Reflection
ES-2108G-VSAE	Open Frame	450	VGA	Tempered Glass	N/A	N/A
ES-2108R-VSAE	Open Frame	450	VGA	5-Wire Resistive	RS-232/USB	N/A
ES-2108C-VSAE	Open Frame	450	VGA	Capacitive	RS-232	N/A
ES-2108R-LSA-05E	Open Frame	450	LVDS	5-Wire Resistive	RS-232/USB	N/A
ES-2208R-VSAE	Rugged panel mount	450	VGA	5-Wire Resistive	RS-232/USB	N/A
ES-2208C-VSA-SRE	Rugged panel mount	450	VGA	Capacitive	RS-232	Yes
ES-2108C-VVM-SRE	Open Frame	300	VGA	Capacitive	RS-232	real transflective

Notes:

1.) Capacitive, SAW and Infrared touch panels are recommended for applications requiring sunlight readable outdoor solutions.

2.) The list above is of major part numbers for your reference. Other combinations of LCD, touchscreen and signal interface features can be found in the Advantech Display Solutions. The Selection Wizard (http://www.advantech.com.tw/ePlatform/DS/DisplaySolution.asp) or CTOS services can be used to get your demand configuration and part numbers to us for ordering.

3.) For special requests, we welcome you to use the Display Solution DTOS service.