

FPM-7002 Series

**Modular Industrial Monitors with
21.5" Full HD/18.5" HD/17" SXGA/
15" XGA/12" XGA LED LCD**



Features

- Industrial-grade LED LCD with a lifespan of 50,000 hours
- Modular design enables flexible configuration of video interfaces (HDMI, DP, iLink)
- Display modules available in various sizes with projected capacitive or 5-wire resistive touch control
- Front-facing iKey for OSD buttons
- Can support 2 box PC controllers simultaneously
- Supports Picture-in-Picture technology
- IP66-rated front panel protects against water and dust
- Panel logo can be customized
- Supports a signal transmission distance of up to 100 m with iLINK technology

Introduction

The FPM series of modular industrial monitors extend the functionality of typical industrial monitors. The flexible modularized design allowed users to change the video interface according to their usage demands. Additionally, unlike traditional industrial touch monitors that can only support controllers in a one-to-one capacity, the FPM series monitors can support two controllers simultaneously. Moreover, with the inclusion of Picture-in-Picture (PiP) technology, users can easily change the display layout and switch between units that need operating.

The FPM-7002 model also supports Advantech's iLINK technology, a long-distance data transmission solution. This technology is designed to resolve issues of touch signal degradation. The provision of pre-installed Wi-Fi and NFC antennas is another feature that allows users to flexibly configure the monitor systems.

Specifications

General

- **OSD Controls** OSD control on front-facing iKey
- **Certification** BSMI, CCC, CE, FCC Class A, UL
- **Enclosure** Front panel: Die-cast magnesium alloy
Rear cover: SECC
- **Mount Options** Panel, wall, desktop, VESA
- **Power Input** Phoenix jack with: 24 V_{DC} input
- **Power Consumption** 25 W
- **I/O Slots** 2
- **Video Port** Fully customizable via I/O

Environment

- **Operating Temperature** 0 ~ 55 °C (32 ~ 131 °F)
- **Storage Temperature** -20 ~ 60 °C (-4 ~ 140 °F)
- **Humidity (Storage)** 10 ~ 90% non-condensing
- **Vibration** 5 ~ 500 Hz, 1 Grms (operating, random)
- **IP Rating** IP66 for front panel

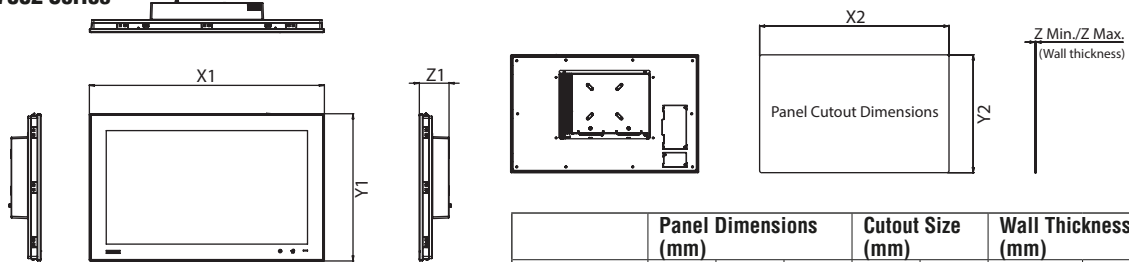
Display Panel Modules

	Display Size	12.1"	15"	17"	18.5"	21.5"
LCD Panel	Display Type	XGA TFT LED LCD	XGA TFT LED LCD	SXGA TFT LED LCD	HD TFT LED LCD	Full HD TFT LED LCD
	Max. Resolution	1024 x 768	1024 x 768	1280 x 1024	1366 x 768	1920 x 1080
	Max. Color	16.2 M	16.7 M	16.7 M	16.7 M	16.7 M
	Luminance	600 cd/m ²	400 cd/m ²	350 cd/m ²	250 cd/m ²	300 cd/m ²
	Viewing Angle (H/V)	160°/140°	160°/140°	160°/140°	170°/160°	178°/178°
	Backlight Life	50,000 hrs	50,000 hrs	50,000 hrs	30,000 hrs	50,000 hrs
	Contrast Ratio	700:1	700:1	800:1	1000:1	5000:1
Touchscreen	Type	5-wire resistive	Projected capacitive	Projected capacitive	Projected capacitive	Projected capacitive
	Light Transmission	Above 75%	90% ± 3%	90% ± 3%	90% ± 3%	90% ± 3%
	Anti-Glare Treatment	Yes	Yes	Yes	Yes	Yes
	Built-In iKey	No	Yes	Yes	Yes	Yes
Expandability	Wi-Fi/NFC Support on Front Panel	No	Optional	Optional	Optional	Optional
Certification	IEC-61010-2	No	Yes	Yes	No	No

Dimensions

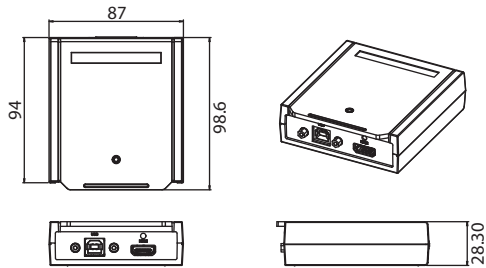
Unit: mm

FPM-7002 Series



Display Size	Panel Dimensions (mm)			Cutout Size (mm)		Wall Thickness (mm)	
	X1	Y1	Z1	X2	Y2	Z Min.	Z Max.
12"	311.8	238	67.4	303	229	1	6
15"	383.2	307.3	67.8	374.5	298.5	1	6
17"	410.4	343.4	68.6	401.3	334.8	1	6
18"	488	309	70.6	479.3	300.3	1	6
21.5"	558.4	349.8	70.6	550.3	341.8	1	6

FPM-M700 Series



Ordering Information

Configurable System

Box Modules	FPM-B700-AE				
Description	Modular FPM computing box with bare BOM and 2 x I/O slots				
I/O Modules	FPM-M700-HDAE	FPM-M700-DPAE	FPM-M700-RXAE	FPM-M700-TRAE	
Description	HDMI module for the modularized FPM series	DP module for the modularized FPM series	RX module for the modularized FPM series	TX+RX module for the modularized FPM series	
Display Panel Modules	FPM-D12T-AE	FPM-D15T-AE	FPM-D17T-AE	FPM-D18W-AE	FPM-D21W-AE
Description	12.1" XGA	15" XGA	17" SXGA	18.5" HD	21.5" Full HD

Pre-Configured System

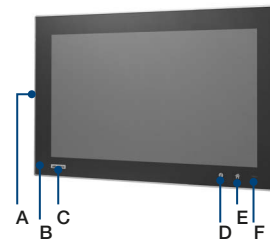
- FPM-7212W-PHAE** 21.5" FHD touch panel with PCAP touch control, 1 x HDMI, and 1 x extension slot

Note: Please contact your local sales team for configuration queries.

Optional Accessories

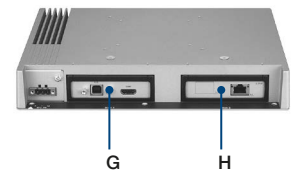
- 1702002600** Power cable (US) 1.8 M
- 1702002605** Power cable (EU) 1.8 M
- 1702031801** Power cable (UK) 1.8 M
- 1700000596-11** Power cable (China/Australia) 1.8 M
- 96PSA-A120W24T2** Adapter 100 ~ 240V 120W 24V 5A
- 98R35000010** Wi-Fi module 802.11 bgn/RT5390 1T1R with USB signal
- 98R35000000** USB NFC/RFID module ADT-006

Front View



- A. Wi-Fi antenna
- B. NFC card reader
- C. Customizable logo
- D. iKey
- E. Home key
- F. Power indicator

Rear View



- G. I/O slot 1
- H. I/O slot 2