

FPM-7002 Series

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



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

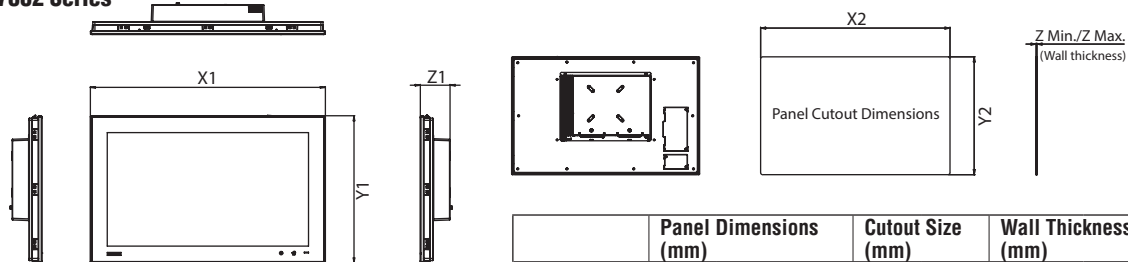
Display Panel Modules

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

Dimensions

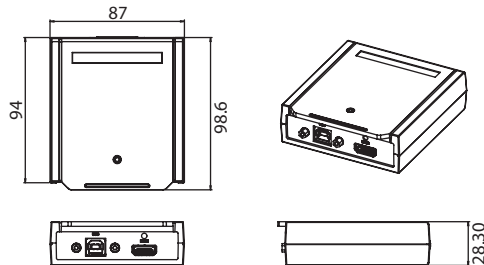
Unit: mm

FPM-7002 Series



| | Panel Dimensions (mm) | | | Cutout Size (mm) | | Wall Thickness (mm) | |
|--------------|-----------------------|-------|------|------------------|-------|---------------------|--------|
| Display Size | X1 | Y1 | Z1 | X2 | Y2 | Z Min. | Z Max. |
| 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-D15T-AE | FPM-D17T-AE | FPM-D18W-AE | FPM-D21W-AE |
| Description | 15" XGA | 17" SXGA | 18.5" HD | 21.5" Full HD |

Pre-Configured System

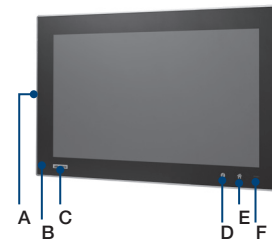
- FPM-7212W-PHAE** 21.5" FHD touch panel with PCAP touch control, 1 x HDMI, and 1 x extension slot

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

Optional Accessories

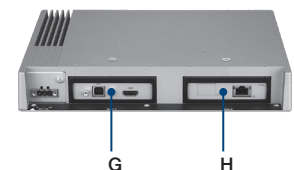
- 1702002600** Power cable (US) 1.8 M
- 1702002605** Power cable (EU) 1.8 M
- 1702031801** Power cable (UK) 1.8 M
- 1700000596-11** Power cable (China/Australia) 1.8 M
- 96PSA-A120W24T2** Adapter 100 ~ 240V 120W 24V 5A
- 98R35000010** Wi-Fi module 802.11 bgn/RT5390 1T1R with USB signal
- 98R35000000**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

Mouser Electronics

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