

Configurable System

Panel Module



P/N	FPM-D12T-AE	FPM-D15T-AE	FPM-D17T-AE	FPM-D18W-AE	FPM-D21W-AE
Panel Size	12"	15"	17"	18.5"	21.5"
Resolution	1024 x 768	1024 x 768	1280 x 1024	1366 x 768	1920 x 1080
Touch	5-wire resistive touch	Projected capacitive touch	Projected capacitive touch	Projected capacitive touch	Projected capacitive touch
Wi-Fi Antenna	No	Yes	Yes	Yes	Yes
NFC Reader	No	Optional	Optional	Optional	Optional
IP Rating	IP66-rated front panel				

Box Computing Module

Coming Soon



P/N	TPC-B200-E12AE	TPC-B200-J12AE	TPC-B500-6C2AE	TPC-B500-633AE	TPC-B500-653AE	TPC-B500-673AE
CPU	Intel® Atom® 1.60GHz Processor	Intel® Celeron® J3455 1.50 GHz processor	Intel® Celeron® 3955U 2.00 GHz processor	Intel® Core™ i3-6100U 2.30 GHz processor	Intel® Core™ i5-6300U 2.40 GHz processor	Intel® Core™ i7-6600U 2.60 GHz processor
Memory	4G DDR3L		4G DDR4	8G DDR4		
I/O	2 x RS-232/422/485, 2 x USB 3.0, 2 x USB 2.0, 2 x GbE, 1 x Line Out, 1 x DP		1 x RS-232, 1 x RS-232/422/485, 2 x USB 3.0, 2 x USB 2.0, 3 x GbE, 1 x Line Out, 1 x DP			
Expansion	1 x Full-size mini PCIe		1 x Half-size PCIe, 2 x full-size mini PCIe			
Power Input	24 V _{DC} ± 20%		24 V _{DC} ± 20%			
Operating System	Microsoft® Windows 10 IoT Enterprise LTSC		Microsoft® Windows WES7 (32/64 bit)/Windows 7 (32/64 bit)/Ubuntu 16.04/ Windows 10 IoT Enterprise LTSC			
Mount Options	Panel, stand, and VESA mount (with optional mounting kit)					

Monitor Box Modules

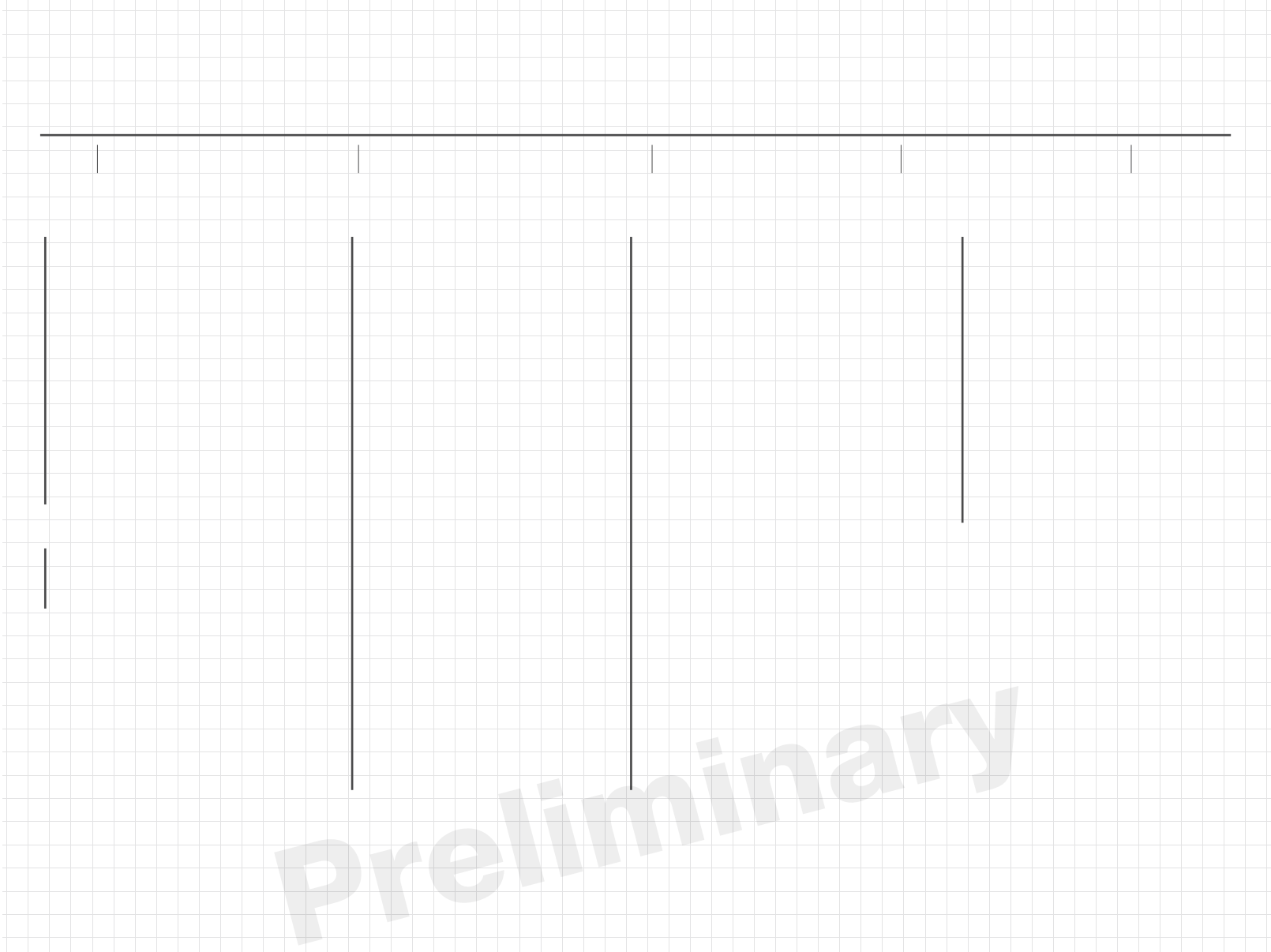


P/N	FPM-B700-AE
Video Interface Available	HDMI(FPM-M700-HDAE), DP(FPM-M700-DPAE), iLink(FPM-M700-RXAE;FPM-M700-TRAE)
Power Input	24 V _{DC} ± 20%
Mount Options	Panel, stand, and VESA mount
iLINK Technology	Supported

Pre-Configured System



TPC-2000 series			TPC-5000 series			FPM-7000 series
TPC-2121T-J12AE	TPC-2151T-J12AE	TPC-2181W-J12AE	TPC-5152T-633AE	TPC-5172T-633AE	TPC-5212W-633AE	FPM-7212W-PHAE
12.1" XGA LCD touch panel with Intel® Celeron® J3455 quad-core processor and 4 GB RAM	15" XGA LCD touch panel with Intel® Celeron® J3455 quad-core processor and 4 GB RAM	18.5" HD LCD touch panel with Intel® Celeron® J3455 quad-core processor and 4 GB RAM	15" XGA touch panel with Intel® i3-6100U dual-core processor and 8 GB RAM	17" SXGA touch panel with Intel® Core™ i3-6100U dual-core processor and 8 GB RAM	21.5" FHD touch panel with Intel® i3-6100U dual-core processor and 8 GB RAM	21.5" FHD touch panel with PCAP touch control, 1 x HDMI, and 1 x extension slot




Vertrieb durch **AAC**

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Modular Panel PCs Provides Exceptional Flexibility for Industry 4.0.

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- Product Features
- Featured Products
- Selection Guide



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Realizing Visualization to Enable Industry 4.0

With the arrival of Industry 4.0, and the resulting shift in market demands, a rapid time-to-market and customer responsiveness have become key concerns for the manufacturing industry. To address this need, Advantech created its TPC series of modular panel PC solutions based on three performance-segmented computing box modules – a control panel(TPC-5000), industrial thin-client(TPC-2000), and Industrial monitor(FPM-7002). The modular design of the TPC series allows the computing box modules to be interchangeably combined with Advantech's display panel modules to provide comprehensive platform solutions according to usage requirements.

This innovative modular design provides numerous advantages, including flexible configuration, rapid customization and deployment, reduced maintenance costs and system downtime, and a cost-effective equipment upgrades for truly future-proof infrastructure.

Exceptional Flexibility

Stand-alone display modules (available in 5 sizes) combined with box modules (3 types available) offer up to 15 flexible platform solutions that can be adapted to diverse applications.

Rapid Customization

Platforms can be rapidly customized and configured according to usage requirements and drastically reducing the time spent on hardware and software integration, re-verification, and re-certification

Easy Maintenance

For system maintenance, the defective modules can be detached and replaced on site. There is no need to unmount the entire platform and minimize the maintenance efforts and costs.

Forward Compatibility

Customers can simply detach and replace the existing module with a new advanced module and the future expandability prolongs the overall product lifecycle.



Control Panel

TPC-5000 series

- 6th generation Intel® Celeron® 3955U/Core™i3-6100U/ Core™ i5-6300U/ Core™i7-6600U processor with 8/4 GB DDR4
- iDOOR, PCIe, removable SSD, and M.2 for flexible expansion
- TPM2.0, 3 x GbE, and isolation power design for control software compatibility
- IEC 61010-2 and IEC 60950-2 certified

Industrial Thin Client

TPC-2000 series

- Intel® Celeron® J3455 / Intel® Atom™ E3940 processor with 4GB DDR3L
- Compact, universal design with low power consumption
- Industrial-grade, wide operating temperature range (-20 ~ 60 °C)
- PXE boot ready to facilitate centralized management of multiple devices
- Supports M.2 storage and an optional iDOOR communication module

Industrial Monitor

FPM-7002 series

- Supports both 4:3 and 16:9 display ratios
- Supports dual displays and control with Picture-in-Picture functionality
- Module-in-Module design with customizable I/O
- iLINK technology enables long-distance (up to 100 m) one-to-one/one-to-many (up to 4) data transmissions

Innovative User-friendly Design



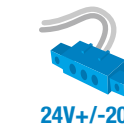
Modular Design

Display and box modules are docked by a board-to-board connector that can be easily integrated into versatile platforms.



IP66-Rated True-Flat Screen

In addition to IP66 certification for dust and water resistance, the platforms are equipped with a true flat P-CAP/resistive touch screen.



Wide Input Power Range (24V+/-20%)

The support for a wide input power range of 24V+/-20% V_{DC} ensures the systems can be operated in unstable power environments.



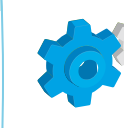
Wi-Fi/NFC Communication Technology

The Wi-Fi/NFC antenna built into the front panel offers direct wireless communication without additional wiring, facilitating easy implementation.



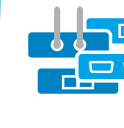
Long Distance Display

With Advantech's iLink technology, the system can support long-distance (up to 100 m) video transmissions to either a single client or multiple clients.



Rapid logo Customization

Platforms can be tailored to align with customers' corporate brand upon request or predefined ways.



Supports iDoor Technology

With Advantech's iDoor technology, customers can integrate peripherals and expand the system functions via the diverse I/O.



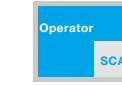
Intelligent Keys

With the inclusion of intelligent keys, Advantech's TPCs provide an intuitive GUI that saves time by simplifying operations.



IEC 61010 certified

The certification demonstrates system's robustness and safety, ensuring platforms deliver premium reliability for control and monitoring applications.



Support dual display

The picture-in-picture (PiP) technology for simultaneous dual display and dual input control enables easy monitoring and reduced KVM costs.