

5 x Interchangeable Display Modules for TPC-B200 Computing Box TPC-B500 Computing Box FPM-B700 Computing Box

Interchangeable Display Modules with 21.5" Full HD/18.5" HD/17" SXGA/15" XGA/12" XGA LED LCD



Features

- Modular front display design in three application-based module categories, enabling flexible configurations
- Front panel module with P-CAP multi-touch sensor available in various sizes (12.1" module is equipped with 5-wire resistive touch control)
- Industrial-grade LED LCD with 50,000 hours (18.5" 30,000 hours) lifetime
- Built-in intelligent home key and i-Key (only models with P-CAP touch)
- System status LED indicators in front panel
- IP66-rated front panel and panel mount
- Built-in Wi-Fi antenna and NFC reader on front panel (with optional Wi-Fi/NFC module, not available in 12")
- Rear mounted computing box module is necessary to activate display module

Introduction

Advantech's modular display series offers five display modules ranging between 12.1" and 21.5" inches in size to go with three computing boxes (TPC-B200/TPC-B500/ FPM-B700) for a total of 25 potential configurations that can be flexibly adapted to various scenarios. Modular display series are equipped with industrial grade LCD and Projected Capacitive touch (12" Resistive touch) screens, providing the best user experience and reliable operation. The modular design ensures flexible configuration and easy maintenance/upgrades. Its robust enclosure is equipped with a die-cast aluminum alloy front bezel and IP66 rating for protection from dust and water ingress. Moreover, optional Wi-Fi/NFC antennas can be built into the front panel for enhanced connectivity and signal reception.

Specifications

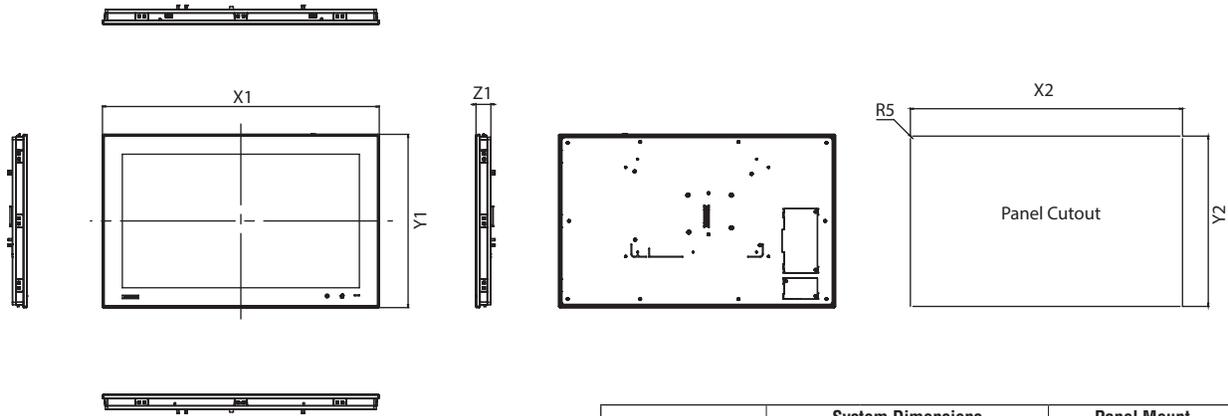
Category	Item	12.1"	15"	17"	18.5"	21.5"
LCD	Display Type	XGA TFT LED LCD	XGA TFT LED LCD	SXGA TFT LED LCD	HD TFT LED LCD	Full HD TFT LED LCD
	Max. Resolution	1024 x 768	1024 x 768	1280 x 1024	1366 x 768	1920 x 1080
	Max. Color	16.2M	16.7M	16.7M	16.7M	16.7M
	Luminance (cd/m ²)	600	400	350	250	300
	Viewing Angle (H/V°)	160/140	160/140	160/140	170/160	178/178
	Backlight Life	50,000 hr	50,000 hr	50,000 hr	30,000 hr	50,000 hr
	Contrast Ratio	700:1	700:1	800:1	1000:1	5000:1
Touch Panel	Type	5-wire resistive	Projected capacitive	Projected capacitive	Projected capacitive	Projected capacitive
	Light Transmission	Above 75%	90% ± 3%	90% ± 3%	90% ± 3%	90% ± 3%
	Treatment	Anti-glare	Anti-glare	Anti-glare	Anti-glare	Anti-glare
Wi-Fi/NFC in Front Panel	N/A	Antenna integrated into the front panel with the inclusion of an optional module				
Part Number		FPM-D12T-AE	FPM-D15T-AE	FPM-D17T-AE	FPM-D18W-AE	FPM-D21W-AE

Note: Display modules cannot work independently. A computing box module is necessary to operate the display module.

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Dimensions

Unit: mm



Display Type	System Dimensions			Panel Mount	
	X1	Y1	Z1	X2	Y2
12" XGA LCD	311.8	238	27.1	303	229
15" XGA LCD	383.2	307.3	27.5	374.5	298.5
17" SXGA LCD	410.4	343.4	28.3	401.3	334.8
18.5" HD LCD	488	309	30.3	479.3	300.3
21.5" Full HD LCD	559.2	350.6	30.3	550.3	341.8

Ordering Information

Panel Module P/N	FPM-D12T-AE	FPM-D15T-AE	FPM-D17T-AE	FPM-D18W-AE	FPM-D21W-AE
Description	12.1" XGA TFT LED LCD	15" XGA TFT LED LCD	17" SXGA TFT LED LCD	18.5" HD TFT LED LCD	21.5" Full HD LED LCD

Note: Display modules cannot work independently. A computing box module is necessary to operate the display module.

Configurable Rear Computing Box

Box Module P/N	Description
TPC-B200-J12AE	Intel® Celeron® J3455 1.50 GHz processor with 4 GB DDR3L
TPC-B500-6C2AE	Intel® Celeron® 3955U 2.00 GHz processor with 4 GB DDR4
TPC-B500-633AE	Intel® Core™ i3-6100U 2.30 GHz processor with 8 GB DDR4
TPC-B500-673AE	Intel® Core™ i7-6600U 2.60 GHz processor with 8 GB DDR4
TPC-B500-653AE	Intel® Core™ i5-6300U 2.40 GHz processor with 8 GB DDR4
FPM-B700-AE	Monitor Rear Box without I/O module (Coming Soon!)

Note: FPM-B700 does not include an I/O module. Up to two I/O modules are necessary for signal reception.

Configurable I/O Module for FPM-B700

I/O Module P/N	Description
FPM-M700-HDAE	HDMI + +USB Touch Module
FPM-M700-DPAE	Display + USB Touch Module
FPM-M700-TRAE	iLINK Tx + Rx Module
FPM-M700-RXAE	iLINK Rx Module

Optional Accessories

Part Number	Description
98R35000010	Wi-Fi module 802.11 bgn/RT5390 1T1R with USB signal
98R35000000	USB NFC/RFID module ADT-006