

8 x Interchangeable Display Modules for

TPC-B200 Computing Box
TPC-B500 Computing Box
TPC-B510 Computing Box
TPC-B610 Computing Box
FPM-B700 Monitor Box

Interchangeable Display Modules with
12" XGA / 15" XGA / 19" SXGA / 15.6" FHD /
18.5" HD / 21.5" FHD / 23.8" FHD



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" and 19" module is equipped with 5-wire resistive touch control)
- Industrial-grade LED LCD with 50,000 hours (18.5"/23.8" 30,000 hours, 15" 70,000 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
- Optional Wi-Fi antenna and NFC reader on the front panel (not available in 12" and 19")
- Rear mounted computing box or monitor box module is compulsory to activate display module

Introduction

Advantech's modular display series offers various display modules ranging between 12.1" and 23.8" inches in size to go with two selections of computing boxes (TPC-B200/TPC-B500/TPC-B510/TPC-B610) or one selection of monitor boxes (FPM-B700) for multiple configurations that can be flexibly adapted to various scenarios. Modular display series are equipped with industrial grade LCD and Projected Capacitive touch (12" and 19" 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

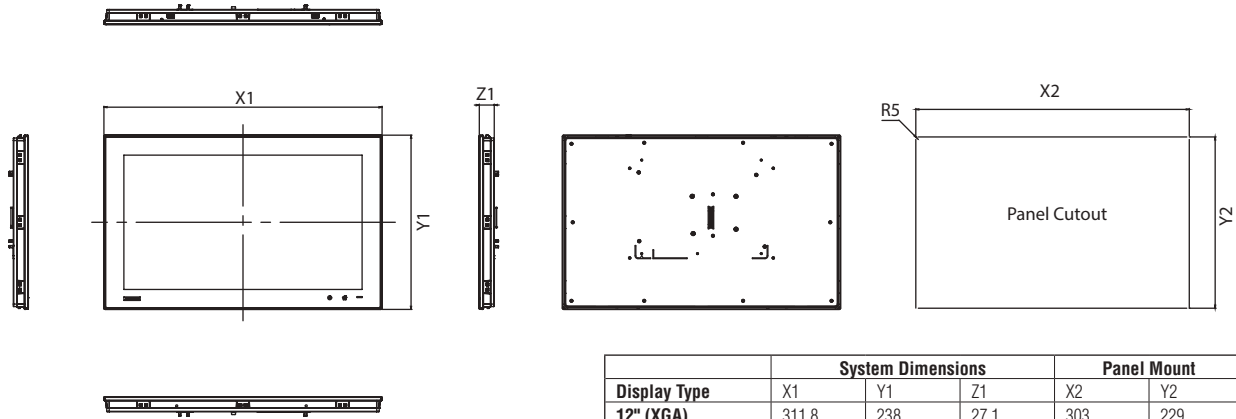
Part Number		FPM-D12T-BE	FPM-D15T-BE	FPM-D17T-BE	FPM-D19T-BE
LCD Panel	Display Size	12"	15"	17"	19"
	Display Type	XGA TFT LED LCD	XGA TFT LED LCD	SXGA TFT LED LCD	SXGA TFT LED LCD
	Aspect Ratio	4:3		5:4	
	Max. Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024
	Max. Color	16.2M	16.7M	16.7M	16.7M
	Luminance	600 cd/m ²	300 cd/m ²	350 cd/m ²	350 cd/m ²
	Viewing Angle (H/V)	178°/178°	176°/176°	160°/140°	170/160
	Backlight Life	50,000 hr	70,000 hr	50,000 hr	50,000hr
Touchscreen	Contrast Ratio	1000:1	2000:1	800:1	1000:1
	Type	5-Wire resistive	PCAP	PCAP	5-Wire resistive
	Light Transmission	Above 75%	90% ± 3%	90% ± 3%	Above 75%
	Anti-Glare Treatment	Yes	Yes	Yes	Yes
Expandibility	Built-In iKey	N/A	Yes	Yes	N/A
	WiFi/NFC Support on Front Panel	N/A	Optional (Please contact Advantech for more information.)		N/A

Part Number		FPM-D15W-FBE	FPM-D18W-BE	FPM-D21W-BE	FPM-D24W-BE
LCD Panel	Display Size	15.6"	18.5"	21.5"	23.8"
	Display Type	FHD TFT LED LCD	HD TFT LED LCD	FHD TFT LED LCD	FHD TFT LED LCD
	Aspect Ratio	16:9			
	Max. Resolution	1920 x 1080	1366 x 768	1920 x 1080	1920 x 1080
	Max. Color	16.7M	16.7M	16.7M	16.7M
	Luminance	450 cd/m ²	250 cd/m ²	250 cd/m ²	350 cd/m ²
	Viewing Angle (H/V)	170°/170°	170°/160°	178°/178°	178°/178°
	Backlight Life	50,000 hr	30,000 hr	50,000 hr	30,000 hr
Touchscreen	Contrast Ratio	800:1	1000:1	1000:1	1000:1
	Type	PCAP	PCAP	PCAP	PCAP
	Light Transmission	90% ± 3%	90% ± 3%	90% ± 3%	90% ± 3%
	Anti-Glare Treatment	Yes	Yes	Yes	Yes
Expandibility	Built-In iKey	Yes	Yes	Yes	Yes
	WiFi/NFC Support on Front Panel	Optional (Please contact Advantech for more information.)			

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Dimensions

Unit: mm



Display Type	System Dimensions			Panel Mount	
	X1	Y1	Z1	X2	Y2
12" (XGA)	311.8	238	27.1	303	229
15" (XGA)	383.2	307.3	27.5	374.5	298.5
15.6" (HD)	419.7	269	30.	412.4	261.7
15.6" (FHD)	419.7	269	30.	412.4	261.7
17" (SXGA)	410.4	343.4	28.3	401.3	334.8
18.5" (HD)	488	309	30.3	479.3	300.3
19" (SXGA)	454	379.8	51.5	443.5	369.3
21.5" (FHD)	558.4	349.8	30.3	550.3	341.8
23.8" (FHD)	595.9	374.1	30.3	587	365.3

Ordering Information

Panel Module P/N	FPM-D12T-BE	FPM-D15T-BE	FPM-D17T-BE	FPM-D19T-BE	FPM-D15W-FBE	FPM-D18W-BE	FPM-D21W-BE	FPM-D24W-BE
Description	12.1" XGA TFT LED LCD	15" XGA TFT LED LCD	17" SXGA TFT LED LCD	19" SXGA TFT LED LCD	15.6" FHD TFT LED LCD	18.5" HD TFT LED LCD	21.5" FHD LED LCD	23.8" FHD TFT LED LCD

Note: Display modules **cannot** work independently. A computing box (TPC-B200/500) or a monitor box (FPM-B700) is compulsory 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-B200-E12AE	Intel® Atom™ E3940, 1.60 GHz, processor with 4GB 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
TPC-B510-833AE	Intel® Core™ i3-8145UE 2.20GHz Dual-core Processor, 8G DDR4 RAM
TPC-B510-853AE	Intel® Core™ i5-8365UE 1.60 GHz Quad-core Processor, 8G DDR4 RAM
TPC-B510-873AE	Intel® Core™ i7-8665UE 1.70GHz Quad-core Processor, 8G DDR4 RAM
TPC-B510-833AC	Intel® Core™ i3-8145UE 2.20GHz Dual-core Processor, 8G DDR4 RAM (Mfg: China)
TPC-B510-853AC	Intel® Core™ i5-8365UE 1.60 GHz Quad-core Processor, 8G DDR4 RAM (Mfg: China)
TPC-B510-873AC	Intel® Core™ i7-8665UE 1.70GHz Quad-core Processor, 8G DDR4 RAM (Mfg: China)
TPC-B510-833AO	Intel® Core™ i3-8145UE 2.20GHz Dual-core Processor, 8G DDR4 RAM without Audio Line out
TPC-B510-853ACO	Intel® Core™ i5-8365UE 1.60 GHz Quad-core Processor, 8G DDR4 RAM without Audio Line out (Mfg: China)
TPC-B510-873AO	Intel® Core™ i7-8665UE 1.70GHz Quad-core Processor, 8G DDR4 RAM without Audio Line out
TPC-B610H-A00A	Intel® 10th Gen. Core™ i CPU Socket (LGA1200), H420E, PCIe16, PCI
TPC-B610W-A00A	Intel® 10th Gen. Core™ i CPU Socket (LGA1200), W480E, PCIe16, PCIe14, NVMe, RAID 0/1, ECC

Configurable Rear Monitor Box

Box Module P/N	Description
FPM-B700-AE	Monitor Rear Box

Note: FPM-B700 does not include an I/O module. I/O module (FPM-M700) is Compulsory for video input and touch signal connection.

Configurable I/O Module for Monitor Box

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
98R35000000	USB NFC/RFID module ADT-006 (via CTOS)
Wi-Fi	Contact your sales rep. for front panel Wi-Fi module

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries. Please contact Advantech for certificate compliance.