3 x Resistive Touch Display Modules for

TPC-B300/B510/B520/B520L/B610/B620 Computing Box

Interchangeable Display Modules with 12" XGA / 15" XGA / 17" SXGA



Features

- Modular front display design in three application-based module categories, enabling flexible configurations
- Front panel module with 5-Wire Resistive Touch available in various sizes (12.1", 15" and 17")
- Industrial-grade LED LCD
- System status LED indicators in front panel
- IP66-rated front panel and panel mount
- Rear mounted computing box or monitor box module is compulsory to activate display module

Introduction

Advantech's modular resistive touch display series offers various display modules support 12", 15" and 17" to go with selections of computing boxes (TPC-B300/TPC-B510/TPC-B520/TPC-B520L/TPC-B610/TPC-B620) for multiple configurations that can be flexibly adapted to various scenarios. Modular resistive display series are equipped with industrial grade LCD, 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.

Specifications

Part Number for Cost Effective version		FPM-D12T-RE	FPM-D15T-RE	FPM-D17T-RE
LCD Panel	Display Size	12"	15"	17"
	Display Type	XGA TFT LED LCD	XGA TFT LED LCD	SXGA TFT LED LCD
	Aspect Ratio	4:3	4:3	5:4
	Max. Resolution	1024 x 768	1024 x 768	1280 x 1024
	Max. Color	16.2M	16.7M	16.7M
	Luminance	600 cd/m²	300 cd/m²	350 cd/m²
	Viewing Angle (H/V)	178°/178°	176°/176°	160°/140°
	Backlight Life	50,000 hr	70,000 hr	50,000 hr
	Contrast Ratio	1000:1	2000:1	800:1
Touchscreen	Type	5-Wire Resistive	5-Wire Resistive	5-Wire Resistive
	Light Transmission	81% ± 3%	81% ± 3%	81% ± 3%
	Anti-Glare Treatment	Yes	Yes	Yes
Environment	Operating Temperature	-20~60 °C (-4~140 °F)	-20~60 °C (-4~140 °F)	-20~50 °C (-4~122 °F)
	Storage Temperature	-30~70 °C (-22~158 °F)	-30~70 °C (-22~158 °F)	-30~60 °C (-22~140 °F)
	Ingress Protection	Font IP66	Font IP66	Font IP66
Housing Color	Panel Frame and Back Cover	Pantone 432C	Pantone 432C	Pantone 432C

All product specifications are subject to change without notice.

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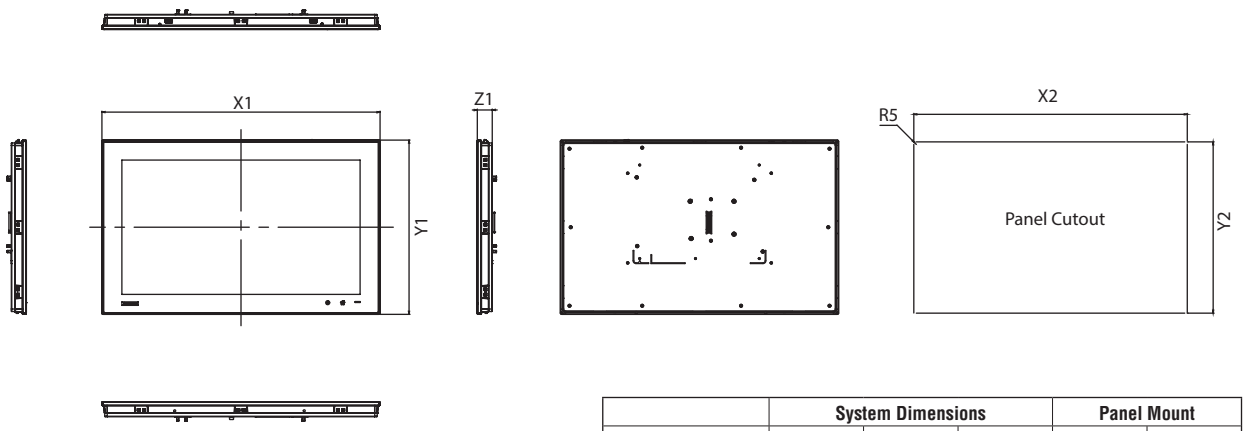
Dimensions

Unit: mm



	System Dimensions			Panel Mount	
Display Type	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
17" (SXGA)	410.4	343.4	28.3	401.3	334.8

Ordering Information

Panel Module P/N	**FPM-D12T-RE****	**FPM-D15T-RE**	**FPM-D17T-RE**
Description	12.1" XGA TFT LED LCD Standard	15" XGA TFT LED LCD Standard	17" SXGA TFT LED LCD Standard

Note: Display modules **cannot** work independently. A computing box (TPC-B300/B510/B520/B520L/B610/B620) is compulsory to operate the display module.
**TPC-B610 does not support FPM-D12T-RE

Configurable Rear Computing Box

Box Module P/N	**Description**
TPC-B300-J20A	Intel® Celeron® J6412 2.6 GHz Processor (10W)
TPC-B300-E20A	Intel® Atom™ X6425E 3.0 GHz Processor (12W)
TPC-B510-833BE	Intel® Core™ i3-8145UE 2.20GHz Dual-core Processor, 8G DDR4 RAM
TPC-B510-853BE	Intel® Core™ i5-8365UE 1.60 GHz Quad-core Processor, 8G DDR4 RAM
TPC-B510-873BE	Intel® Core™ i7-8665UE 1.70GHz Quad-core Processor, 8G DDR4 RAM
TPC-B520L-C30A	Intel® Core™ i3-N305 1.80 GHz Octo-core Processor
TPC-B520-D50A	Intel® Core™ i5-1335UE 1.30 GHz Deca-core Processor
TPC-B520-D70A	Intel® Core™ i7-1365URE 1.70 GHz Deca-core Processor
TPC-B610H-A00A	Intel® 10th Gen. Core™ i CPU Socket (LGA1200), H420E, PCIex16, PCI
TPC-B610W-A00A	Intel® 10th Gen. Core™ i CPU Socket (LGA1200), W480E, PCIex16, PCIex4, NVMe, RAID 0/1, ECC

Optional Accessories

Part Number	**Description**
98R1B300V00*	TPC-B300 VESA mount kit for FPM-D Series

*Note: 98R1B300V00 VESA mounting kit is only required for TPC-B300

Packing List

FPM-D12T-RE

Item	Part No.	Depiction	Qty
CLAMPER	1962055040	CLAMPER PPC-55 M1632611 A2	8
CLAMPER Screw	1935042520	Screw M4x25L R/S D=8.3 H=2.5 (2+) ST BZn	8
WARRANTY	2190000902	CARDBOARD-WARRANTY REV. A2	1

FPM-D15T-RE

Item	Part No.	Depiction	Qty
CLAMPER	1962055040	CLAMPER PPC-55 M1632611 A2	10
CLAMPER Screw	1935042520	Screw M4x25L R/S D=8.3 H=2.5 (2+) ST BZn	10
WARRANTY	2190000902	CARDBOARD-WARRANTY REV. A2	1

FPM-D17T-RE

Item	Part No.	Depiction	Qty
CLAMPER	1960018986T000	Clamper-bezel M5 for TPC-1770 A1	10
CLAMPER Screw	1935052000	Screw M5x20L R/S D=9 H=3 (2+) ST Ni	10
WARRANTY	2190000902	CARDBOARD-WARRANTY REV. A2	1

FPM-DXXX-RE Photo









*Note: Request to order TPC-B Series HMI computing 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.