

Advantech Automation Panel

Next Generation of HMI -
True Flat Touch and Intelligent Keys



- Introduction
- Features & Functions
- Intelligent Software
- Selection Guide



ADVANTECH

Enabling an Intelligent Planet

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Selection Guide



Model	TPC-1581WP/1881WP	TPC-1840WP/2140WP	SPC-1840WP/2140WP	TPC-1251T/1551T	FPM-6211W	FPM-7151W/7181W/7211W	
Category	Touch Panel Computer	Touch Panel Computer	Stationary Panel Computer	Touch Panel Computer	Industrial Monitor	Industrial Monitor	
Aspect ratio	16:9			4:3	16:9		
CPU	TPC-1581WP : Intel® 4th Gen. Core™ i3-4010U 1.7GHz TPC-1881WP : Intel® 4th Gen. Core™ i7-4650U 1.7GHz / Intel® 4th Gen. Core™ i3-4010U 1.7GHz	AMD® G-series T56E Processor 1.65G	AMD® G-series T56N Processor 1.6G	Intel® Atom™ E3827 1.75 GHz Processor		-	
Memory	TPC-1581WP : 4GB DDR3L 1600MHz SO-DIMM SDRAM TPC-1881WP : 4GB / 8GB DDR3L 1600MHz SO-DIMM SDRAM	4GB SO-DIMM DDR3	4GB SO-DIMM DDR3	4GB (8GB optional) DDR3L 1600MHz SO-DIMM SDRAM		-	
Display	Display Type	WXGA TFT LED LCD	TPC-1840WP : WXGA TFT LED LCD TPC-2140WP : Full HD TFT LED LCD	SPC-1840WP : WXGA TFT LED LCD SPC-2140WP : Full HD TFT LED LCD	XGA TFT LED LCD	Full HD TFT LED LCD	FPM-7151W / 7181W : WXGA TFT LED LCD FPM-7211W : Full HD TFT LED LCD
	Display Size	TPC-1581WP : 15.6" TPC-1881WP : 18.5"	TPC-1840WP : 18.5" TPC-2140WP : 21.5"	SPC-1840WP : 18.5" SPC-2140WP : 21.5"	TPC-1251T : 12.1" TPC-1551T : 15"	21.5"	FPM-7151W : 15.6" FPM-7181W : 18.5" FPM-7211W : 21.5"
	Max. Resolution	TPC-1581WP : 1366 x 768 TPC-1881WP : 1367 x 768	TPC-1840WP : 1366 x 768 TPC-2140WP : 1920 x 1080	SPC-1840WP : 1366 x 768 SPC-2140WP : 1920 x 1080	1024 x 768	1920 x 1080	FPM-7151W / 7181W : 1366 x 768 FPM-7211W : 1920 x 1080
	Max. Colors	16.7M			16.2M	16.7M	
	Luminance cd/m ²	300 nits			TPC-1251T : 600 nits TPC-1551T : 400 nits	250 nits	300 nits
	Viewing Angle (H/V)°	170/160	TPC-1840WP : 170/160 TPC-2140WP : 178/178	SPC-1840WP : 170/160 SPC-2140WP : 178/178	160/140	170/160	FPM-7151W / 7181W : 170/160 FPM-7211W : 178/178
	Backlight MTBF(hrs)	50,000 hrs					
Touchscreen	Projected capacitive touch			5-wire Resistive	Projected capacitive touch	Projected capacitive touch	
Network (LAN)	10/100/1000 Base-T x 2		10/100/1000 Base-T x 2, M12 connector	10/100/1000 Base-T x 2	-	-	
Video Port		HDMI			HDMI	VGA & DVI / HDMI	
I/O Ports	RS-232/422/485 x 1, RS-232 x 1 USB 3.0 x 2, HDMI 1.4 x 1 Audio Line out x 1, USB 2.0 x 1 (optional) Audio MIC x 1 (optional)	RS-232 x 3, RS-422/485 x 1 USB 2.0 (Host) x 2, Mic in x 1 Line out x 1	RS-232 x 1, M12 connector USB 2.0 x 1, M12 connector 24V _{DC} connector, M12 connector	RS-232 x 1, RS-232/422/485 x 1 USB 3.0 x 1 USB 2.0 x 1	USB Interface for touch screen	RS-232 and USB interface for touch screen	
HDD (Optional)	2.5" SATA HDD					-	
Intelligent Keys	Yes			-	Yes	-	
CompactFlash Slots	CFast slot x 1		-	CFast slot x 1	-	-	
Expansion Slots	Full-size Mini PCI-E (Support iDoor)	Full-size Mini PCI-E x 1		Full-size Mini PCI-E (Support iDoor with expansion kit-TPC-1251T-EHKE)	-	-	
DC Power Input (Voltage)	24V _{DC} ± 20%						
Ingress Protection	Front panel: IP66		All around IP66		Front panel IP66		
Enclosure	Front bezel : Die-cast Aluminum alloy Back housing : PC/ABS Resin		Front bezel : Die-cast aluminum alloy Back housing : Die-cast aluminum alloy	-	Die-cast Aluminum alloy	Front panel : Die-cast magnesium alloy Rear cover : SECC	
Mounting	Panel mount		Desktop, wall, VESA mount	Panel, wall mount	VESA mount	Desktop, wall, VESA Mount	
Operating Temperature	0 ~ 55°C (32 ~ 131°F)		0 ~ 50°C (32 ~ 122°F)	-20 ~ 60°C (-4 ~ 140°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 55°C (32 ~ 131°F)	
Storage Temperature	-20 ~ 60°C (-4 ~ 140°F)			-30 ~ 70°C (-22 ~ 158°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	
Dimensions	TPC-1581WP : 419.7 x 269 x 56.7 mm (16.52" x 10.59" x 2.23") TPC-1881WP : 488 x 309 x 56.7 mm (19.21" x 12.17" x 2.23")	TPC-1840WP : 488 x 309 x 56.7 mm (19.21" x 12.17" x 2.23") TPC-2140WP : 558.4 x 349.8 x 56.7 mm (21.98" x 13.77" x 2.23")	SPC-1840WP : 488 x 309 x 65 mm (19.21" x 12.17" x 2.56") SPC-2140WP : 558.4 x 349.8 x 56.7 mm (21.98" x 13.77" x 2.23")	TPC-1251T : 311.80 x 238 x 57.2 mm (12.28" x 9.37" x 2.25") TPC-1551T : 383.2 x 307.3 x 61.1 mm (15.09" x 12.10" x 2.41")	519.6 x 314.3 x 26.5 mm (20.46" x 12.37" x 1.04")	FPM-7151W : 419.7 x 269 x 47.7 mm (16.52" x 10.59" x 1.88") FPM-7181W : 488 x 309 x 47.7 mm (19.21" x 12.17" x 1.88") FPM-7211W : 558.4 x 349.8 x 47.7 mm (21.98" x 13.77" x 1.88")	
Weight	TPC-1581WP : 6 kg (13.22 lbs) TPC-1881WP : 7 kg (15.44 lbs)	TPC-1840WP : 7 kg (15.44 lbs) TPC-2140WP : 8 kg (17.64 lbs)	SPC-1840WP : 8 kg (17.64 lbs) SPC-2140WP : 9 kg (19.8 lbs)	TPC-1251T : 2.5 kg (5.51 lbs) TPC-1551T : 3.9 kg (8.59 lbs)	4.5 kg (9.92 lbs)	FPM-7151W : 5 kg (11 lbs) FPM-7181W : 6 kg (13.2 lbs) FPM-7211W : 8 kg (17.6 lbs)	
Certification	BSMI, CCC, CE, FCC Class A, UL						
Operating System	Microsoft® Windows XP/7/WE8 Industry/WES7/Linux			Microsoft® Windows WES7 32bit/64bit /WE8S 64bit / Windows 7 / 8 32bit/64bit / Linux Kernel 3.x	Microsoft® XP, Vista,7,WE8 Industry, Linux, CE	Microsoft® XP, Vista,7,8, XPe, CE and Linux	



Advantech Automation Panels

Next Generation of HMI- True Flat Touch and iKey



16:9 Wide Screen & Multi-touch

16:9 widescreen adds 40% viewing area to display more information for easier management than a traditional 4:3 display. By integrating multi-touch functionality, factory workers can increase operational safety with two-point key confirmation.



Magnesium-alloy Front

With a magnesium alloy front, the thin client panel computers have a reduced weight of 35% compared to aluminum alloy models with 18.5" and 21.5" sizes.



IP66 True Flat Touch Screen

Protected by IP66 certification with true flat PCT and resistive touch, thin-client panel computers support a 7H hardness anti-scratch surface to prevent accidental scratches caused by tools such as screwdrivers.



Intelligent Keys & Customized UI

Through touch-like intelligent-key support, thin-client panel computers provide an intuitive GUI & usability to simplify operating steps to save time. Customers can easily customize their own UI by using the updated SDK and API released on the official website.



Remote Management by Built-in Embedded Controller

With a built-in embedded controller combined with cloud computing technology, the thin-client panel computers provide a more efficient solution for remote management to reduce the TCO of production.



Multiple I/Os with M12 Connector

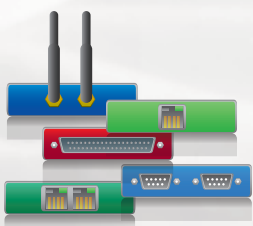
The thin-client panel computers provide a wide variety of I/O ports including: COM-port, USB, 1000Base-T LAN, HDMI, and Audio ports with IP rating M12 connector.



More Powerful Graphical Processors

With a more powerful graphics processor, the thin-client panel computers offer advanced graphical performance for more efficiency when handling complicated processes.

Advantech's new range of star products include several new models in the Touch Panel Computer (TPC), Stationary Panel Computer (SPC) and Industrial Monitor (FPM) range of devices, all of which come with true flat style by 16:9 multi-touch displays or 4:3 5W resistive touch, high-performance dual-core processors and IP66 certified front panels making them more elegant and fit for smart factory. Furthermore, Advantech Panels have combined cloud computing technology to make the solutions more efficient, reduce the cost of production and provide factory workers with more intuitive management of the production line.



Support iDoor Technology

With Advantech iDoor Technology, customers can add system functions through the variety of standardized modular I/Os. Modules for iDoor systems include: Fieldbus protocol; memory expansion and storage; digital and analog I/O; WAN, MAN and LAN communications with Wi-fi, GPS, GPRS and LTE.



Supports Standard VESA Arm

With support for a standard 100x100mm VESA Arm, the thin-client panel computers are suitable for various applications such as automotive production.



Easy-Installation

With a special snap design, the thin-client panel computers can be easily installed by one person thereby speeding up the installation process.



Long Distance Display

By using the next generation digital video interface, the thin-client panel computers provide a long distance interface for video and USB signals.

Intelligent Software



Advantech WebAccess

Advantech WebAccess is a 100% web browser-based software package for HMI and SCADA with private cloud software architecture. All the features found in conventional HMI and SCADA software including Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs, are available in an standard web browser. WebAccess is built around the latest internet technologies.



SUSIAccess-Remote Device Management



SUSIAccess is an innovative remote management and cloud-based software preloaded in all Advantech embedded solutions, allowing the efficient and centralized remote monitoring and management of embedded devices in real-time, device health status, system configuration, system protection, and recovery & backup. SUSIAccess targets the needs of creating a more intelligent and interconnected embedded computing solution.

Panel Express



PanelExpress is a Windows based HMI runtime software, it enables you to utilize the resources of a PC, such as computation power, multimedia and bigger screen to realize a high-end sophisticated HMI.



Data collection, alarm monitoring, recipe handling, and history of logging



No limitation on the internal I/O points



Supports over 450 PLC communication protocols



Over 50 kinds of screen objects



Supports 16 communication links

Advantech Innovative Design Concept- Simple, Flexible, Reliable

As a leading provider of Industrial PC, Advantech devoted to innovation product/service development. To be the pioneer in intelligent automation technology, the i-concept represents the intelligent, integrated and intuitive design which covers the innovation of service model, user behavior and cutting-edge technology that opens a new era of industrial automation.



An integrated intelligent key brings simplified intuitive operation for configuring your automation panel. With a flexible software design, customized functions are easier to carry out.



A standardized modular Interface which offers flexible expansion to increase the number of applications and expand system functions through the variety of standardized modular I/Os.



A Reliable Long Distance Transmission Technology which transfers video signals and touch control over a single Ethernet cable which overcomes interference in harsh environments not only for data connections, but also for a cost effective multiple display solution.

Regional Service & Customization Centers

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Kunshan
86-512-5777-5666

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886-2-2792-7818

Netherlands

Eindhoven
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Singapore

Singapore	65-6442-1000
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Sydney	61-2-9476-9300

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Hilden / D'dorf	49-2103-97-885-0

France

Paris	33-1-4119-4666
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Italy

Milano	39-02-9544-961
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Breda	31-76-5233-100
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Warsaw	48-22-33-23-740 / 41
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Moscow	7-495-232-1692

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North America

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Saude-São Paulo	55-11-5592-5355

Mexico

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Mexico City	52-55-6275-2777

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