

Selection Guide



Display Modules	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	IP66-rated front panel	IP66-rated front panel	IP66-rated front panel	IP66-rated front panel
Part Number		TPC-5122T-633AE	TPC-5152T-633AE	TPC-5172T-633AE	TPC-5182W-633AE	TPC-5212W-633AE
CPU	Intel® Core™ i3-6100U 2.30 GHz					
Memory	8G DDR4 2133MHz SO Dimm					
I/O	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 Half-size PCIe, 2 x full-size mini PCIe					
TPM	Supports TPM 2.0 (1.2 optional)					
MRAM	by iDoor PCM-2300MR-AE					
Power Input	24 VDC ± 20%					
Operating System	Microsoft® Windows WES7 (32/64 bit)/Windows 7 (32/64 bit)/Windows 8 (64 bit)/Ubuntu 16.04/ Windows 10 IoT Enterprise LTSC					
Mount Options	Panel, stand, and VESA mount (with optional mounting kit)					
Part Number		TPC-2121T-E12AE	TPC-2151T-E12AE	TPC-2171T-E12AE	TPC-2181W-E12AE	TPC-2211W-E12AE
CPU	Intel® Atom™ E3940 1.6 GHz					
Memory	4G DDR3 1600MHz SO Dimm					
I/O	1 x RS-232, 1 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					
Expansion	1 x Full-size mini PCIe					
Power Input	24 VDC ± 20%					
Operating System	Microsoft® Windows 10 IoT Enterprise LTSC					
Mount Options	Panel, stand, and VESA mount (with optional mounting kit)					
Part Number		TPC-1122T-HDAE	TPC-1152T-HDAE	TPC-1172T-HDAE	TPC-1182W-HDAE	TPC-1212W-HDAE
Video Interface	HDMI (default), DP, DVI, VGA, iLink					
Power Input	24 VDC ± 20%					
Mount Options	Panel, stand, and VESA mount					
iDoor Expansion	PCM-29D2HD-AE (HDMI), PCM-29D2DP-AE (DP), PCM-29D2DV-AE (DVI), PCM-29D2VG-AE (VGA), PCM-29D2TR-AE (LINK TX+RX), PCM-29D1RX-AE (LINK RX), PCM-29PCRI-AE (RISC module)					

Advantech's Innovative Design Concept - Simple, Flexible, and Reliable

As a leading provider of industrial PCs, Advantech is committed to continual product innovation and service development. Advantech's pioneering intelligent automation "i" technology concept emphasizes intelligent, integrated, and intuitive designs that innovate existing service models, user behaviors, and technology trends for the new era of industrial automation.



The integration of an intuitive and intelligent key simplifies automation panel configuration, while the flexible software design ensures easy and convenient customization.



This standardized modular interface enables flexible expansion by supporting numerous applications and extended system functions through a wide range of I/O.



This reliable long-distance transmission technology transfers video signals and touch control commands over a single Ethernet cable, overcoming the inherent interference of harsh environments to ensure connectivity and provide a cost effective multi-display solution.

Regional Service & Customization Centers

China	Kunshan 86-512-5777-5666	Taiwan	Taipei 886-2-2792-7818	Netherlands	Eindhoven 31-40-267-7000	Poland	Warsaw 00800-2426-8080	USA	Milpitas, CA 1-408-519-3898
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Worldwide Offices

Greater China

China	Toll Free	800-810-0345
	Beijing	86-10-6298-4346
	Shanghai	86-21-3632-1616
	Shenzhen	86-755-8212-4222
	Chengdu	86-28-8545-0198
	Hong Kong	852-2720-5118

Taiwan

Toll Free	0800-777-111
Neihu	886-2-2792-7818
Xindian	886-2-2218-4567
Taichung	886-4-2329-0371
Kaohsiung	886-7-229-3600

Asia Pacific

Japan	Toll Free	0800-500-1055
	Tokyo	81-3-6802-1021
	Osaka	81-6-6267-1887
	Nagoya	81-52-856-9657

Korea	Toll Free	080-363-9494
	Seoul	82-2-3663-9494

Singapore	Singapore	65-6442-1000
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Malaysia	Kuala Lumpur	60-3-7725-4188
	Penang	60-4-537-9188

Thailand	Bangkok	66-2-540-2299
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India	Bangalore	91-80-2545-0206
	Pune	91-20-3948-2075

Indonesia	Jakarta	62-21-751-1939
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Australia	Toll Free	1300-308-531
	Melbourne	61-3-9797-0100
	Sydney	61-2-9476-9300

Europe

Germany	Toll Free	00800-2426-8080/81
	Munich	49-89-12599-0
	Düsseldorf	49-2103-97-855-0

France	Paris	33-1-4119-4666
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Italy	Milano	39-02-9544-961
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Benelux & Nordics	Breda	31-76-523-3100
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UK	Newcastle	44-0-191-262-4844
	London	44-0-870-493-1433

Poland	Warsaw	48-22-31-51-100
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Russia	Moscow	8-800-555-01-50
	St. Petersburg	8-800-555-81-20

Czech Republi	Ústí nad Orlicí	420-465-521-020
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Ireland	Oranmore	353-91-792444
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- Introduction
- Benefits and Features
- Control Panel
- Industrial Thin Client
- Web Terminal and Monitor



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Enabling an Intelligent Planet

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Visualizing Smart Factories to Enable Industry 4.0

Modular panel platforms for satisfying all industrial needs

When faced with the rapid market changes brought about by Industry 4.0, basic product provision is not enough; instead, solutions to specific problems must be developed. Stand-alone display modules and box modules can be easily integrated into versatile touch panel computers to serve as control panels, industrial thin clients, and industrial monitors and web terminals for diverse applications. Modular panel platforms benefit customers by enabling wide product offerings and supporting the flexible creation of new business models. Customers can assemble comprehensive portfolios that promptly address the needs of end users. Additionally, platforms with a modular design enable more easy, rapid, and comprehensive customization.



WebAccess/HMI

WebAccess/SCADA

WISE-PaaS/RMM



Flexibility

Stand-alone display modules (available in 5 sizes) combined with box modules (3 types available) offer a range of flexible platforms (15 systems available) that can be adapted to diverse field applications.

Rapid Customization

Platforms can be rapidly customized and configured according to usage requirements. The time and cost savings provided by Advantech platforms facilitate rapid development in keeping with market trends.

Easy Maintenance

For system maintenance, the box modules can be removed and any defective modules detached and sent for repair. There is no need to unmount the entire platform.

Upgradable

The modular platform design allows customers to more easily and economically conduct upgrades. Customers can simply detach and replace the existing module with a new advanced module.

Innovative User-Friendly Design



Modular Platform Design

Display and box modules are docked by a board-to-board connector that can be easily integrated into versatile touch panel computers to promptly satisfy end user requirements.



Wi-Fi/NFC Communication Technology

The Wi-Fi/NFC antenna built into the front panel eliminates the need to alter the original cabinet design. The platform offers direct support for wireless communication without additional wiring to ensure easy implementation.



IP66-Rated True-Flat Front Panel

The IP66-rated true-flat front panel provides the system with not only a modern appearance but also protection from water and dust. This also allows the front panel to be wiped or washed clean.



Intelligent Keys

Advantech's industrial monitors also feature intelligent keys for adjusting the on-screen display.



Easy Installation

With its unique snap design, the system can be easily installed by one person, thereby accelerating installation. Compatible with various mounting kits, the system supports panel, wall, stand, and VESA mounting for diverse usage scenarios.



IEC 61010-2 Certification

Robust industrial HMI certification ensures that Control Panel delivers premium control and monitoring capabilities.



iDOOR Support

To expand the functionalities, systems can be equipped with Industrial Fieldbus, Smart I/O comm., Communication, and Multiple I/O peripheral iDOORS to fulfill versatile applications.



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

Wide input power range ensures stable operation in unstable power environments.



2.5" Removable HDD Bay

Removable storage facilitates rapid and convenient system maintenance and failure repair.



Easy Customization

Systems can be tailored to align with your corporate brand using on-demand customization and iKey. Customization samples are delivered promptly.



Control Panel TPC-5000

- Optimized rugged housing design
- Latest generation Intel® Core™ i processor
- Supports expansion via iDOOR, PCIe, removable SSD, M.2, and antenna
- TPM, MRAM, 3x GbE, isolation power design for control software compatibility
- IEC 61010-2 and IEC 61131-2 complied
- Panel mount supported



iDOOR CODESYS
WebAccess/HMI WISE-PaaS/RMM

Industrial Thin Client TPC-2000

- Compact, slim, universal design
- Latest generation Intel® Atom™ processor
- Optional iDOOR communication module and removable M.2 storage
- Industrial-grade wide temperature range
- PXE boot ready
- Features WISE PaaS/RMM for asset management
- VESA mount supported



iDOOR THINMANAGER
WebAccess/SCADA WISE-PaaS/RMM

Industrial Web Terminal and Monitor TPC-1000

- Compact, slim, modular design
- Easy fit iDOOR module in box
- Low-power RISC-based web terminal
- Optional smart I/O and communications module
- Configurable video interfaces with PIP functionality
- iLINK for long-distance transmissions (1 to 1 or 1 to 4)
- VESA mount supported



iLINK