

Thin-Client Panel Computers

Next Generation of HMI –
Multi-touch and Intelligent Keys



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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.



IP65 True Flat Touch Screen

Protected by IP65 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.



Multi-color LED Indicator

With a multi-color LED indicator, factory workers can quickly realize the computer's operating status. The blue bar indicates the system is working while an orange bar shows that the system is in sleep mode.



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.

Thin-Client Panel Computers

Next Generation of HMI – Multi-touch and Intelligent Keys

Advantech's new range of star products include several new models in the TPC (Touch Panel Computer), SPC (Stationary Panel Computer), FPM (Industrial Monitor) and WebOP (Operator Panel) range of devices, all of which come with 16:9 wide screen multi-touch displays; high-performance dual-core processors, and true flat front IP65 certified touch panels, making them more elegant and suitable for automotive production. Thin-client panel computers 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.



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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.



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

SUSIAccess – Remote Device Management

SUSIAccess is an innovative remote device 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.



SUSIAccess Remote Device Management

- Remote Monitoring
- Remote On/Off, KVM
- System Recovery
- System Protection
- System Configuration
- Real-time Response

WebOP Designer – HMI/SCADA Software

WebOP Designer

WebOP Designer is proven in many application fields and is an easy-to-use integrated development tool featuring solution-oriented screen objects, high-end vector graphics, Microsoft Windows fonts for multi-language applications, recipes, alarms, data loggers and operation logging. It also includes online/offline simulation and other utility programs such as Data Transfer Helper (DTH); recipe editors and text editors. WebOP Designer Runtime which designed by WebOP Designer Software, and easy download into Embedded Operating System to support Microsoft Windows CE/XP/7 platforms.

Shortcut & Execution Toolbar

Icon Display Improves Work Efficiency

Object Toolbar

Registered Components Display

Project Workspace

An Intuitive Tree Display Makes Runtime Development Easy.

Edit Toolbar

Dedicated Component Editing Screen

Screen Design Worksheet

Smart Screen Design

Dialog Box

Message Build List

Compile & Simulate Results

Draw Toolbar

Selection Guide



Model Name	WebOP-3070T/3100T/3150T	SPC-1840WP	FPM-7181W/7211W	TPC-1840WP	TPC-2140WP	
CPU	RISC 32 bits ARM® Cortex™-A8 600MHz	AMD® dual core 1.65GHz	-	AMD® dual core 1.65GHz	AMD® dual core 1.65GHz	
Memory	256MB on-board DDR2	4GB SO-DIMM DDR3	-	4GB SO-DIMM DDR3	4GB SO-DIMM DDR3	
Display	Display Type	WXGA / WSVGA / XGA TFT LED LCD	WXGA TFT LED LCD	WXGA / Full HD / TFT LED LCD	WXGA TFT LED LCD	Full HD TFT LED LCD
	Display Size	7" / 10.1" / 15"	18.5"	18.5" / 21.5"	18.5"	21.5"
	Max. Resolution	800 x 480 / 1024 x 600 / 1024 x 768	1366 x 768	1366 x 768 / 1920 x 1080	1366 x 768	1920 x 1080
	Max.Colors	262 K	16.2 M	16.2 M / 16.7M	16.2 M	16.7 M
	Luminance cd/m ²	500 / 550 / 400	300	300 / 300	300	300
	Viewing Angle (H/V°)	140/120 / 140/110 / 160/140	170/160	170/160 / 178/178	170/160	178/178
Backlight MTBF (hrs)	50000	50000	50000	50000	50000	
Video Port	-	-	VGA & DVI-D port	HDMI port x 1	HDMI port x 1	
Touchscreen	5 wire analog resistive	Projected capacitive touch	Projected capacitive touch	Projected capacitive touch	Projected capacitive touch	
Network (LAN)	10/100Base-T x 1	10/100/1000Base-T x 2, M12 connector	-	10/100/1000Base-T x 2	10/100/1000Base-T x 2	
I/O Ports	COM1: RS-232/422/485 (DB9) COM2: RS-422/485 (TB 4pin) COM3: RS-485 (TB 2pin) CAN: TB 2pin USB 2.0 x 1(Host) USB 1.1 x 1(Client) Mic in x1, Line out x 1	RS-232 x1, M12 connector USB 2.0 x1, M12 connector 24 V _{DC} connector, M12 connector	RS-232 and USB interface for touch screen	RS-232 x 3 RS-422 / 485 x 1 USB 2.0 x 2(Host) Mic in x 1, Line out x 1	RS-232 x 3 RS-422 / 485 x 1 USB 2.0 x 2(Host) Mic in x 1, Line out x 1	
HDD (Optional)	-	2.5" SATA HDD	-	2.5" SATA HDD	2.5" SATA HDD	
Intelligent Keys	-	Quick access through built-in front bezel function and home key button	-	Quick access through built-in front bezel function and home key button	Quick access through built-in front bezel function and home key button	
CompactFlash Slots	-	-	-	CFast slot x 1	CFast slot x 1	
Expansion Slots	Micro-SD slot x 1	Full-sized mini PCI-E x 1	-	Full-sized mini PCI-E x 1	Full-sized mini PCI-E x 1	
Power Input Voltage	24V _{DC} ± 10%	24 V _{DC} connector, M12 connector	Phoenix Jack: 24 V _{DC} input DC Jack 12 V _{DC} @ 4.75 A output by External power adapter	18 ~ 32 V _{DC}	18 ~ 32 V _{DC}	
Ingress Protection (Front Panel)	Front panel IP66	All around IP65	Front panel IP65	Front panel IP65	Front panel IP65	
Enclosure	Front panel: Die-cast aluminum alloy	Front bezel: Die-cast aluminum alloy Back housing: Die-cast aluminum alloy	Front panel: Die-cast magnesium alloy Rear cover: SECC	Front bezel: Die-cast magnesium alloy Back housing: PC/ABS Resin	Front bezel: Die-cast magnesium alloy Back housing: PC/ABS Resin	
Mounting	Panel, VESA arm	Desktop, wall, VESA arm	Desktop, wall or panel mount	Desktop, wall or panel mount	Desktop, wall or panel mount	
Operating Temperature	-20 ~ 60°C (-4 ~ 140°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	
Storage Temperature	-30 ~ 70°C (-22 ~ 158°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	
Dimension	203.4 x 150 x 43.7 mm (8.01" x 5.91" x 1.72") 271.5 x 213.5 x 43.2 mm (10.69" x 8.41" x 1.7") 386 x 310 x 46.8 mm (15.20" x 12.2" x 1.84")	488 x 309 x 65 mm (19.2" x 21.2" x 2.6")	488 x 309 x 45.7 mm (19.2" x 21.2" x 1.8") 561 x 356 x 45.7 mm (22.1" x 14" x 1.8")	488.1 x 309.1 x 56.7 mm (19.2" x 12.2" x 2.2")	580.7 x 355.3 x 56.7 mm (22.8" x 14" x 2.2")	
Weight	1 kg (2.20 lbs) 1.2 kg (2.65 lbs) 3 kg (6.61 lbs)	8 kg (17.64 lbs)	6 kg (13.2 lbs) 8 kg (17.6 lbs)	7 kg (15.44 lbs)	8 kg (17.64 lbs)	
Certification	BSMI, CCC, CE, FCC Class A, UL	BSMI, CCC, CE, FCC Class A, UL	BSMI, CCC, CE, FCC Class A, UL	BSMI, CCC, CE, FCC Class A, UL	BSMI, CCC, CE, FCC Class A, UL	
Operating System	Microsoft® WinCE 6.0	Microsoft® Win8/WES7P /XP/WES2009/WinCE 6.0 /Linux	Microsoft® Win8/WES7P /XP/WES2009/WinCE 6.0 /Linux	Microsoft® Win8/WES7P /XP/WES2009/WinCE 6.0 /Linux	Microsoft® Win8/WES7P /XP/WES2009/WinCE 6.0 /Linux	

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