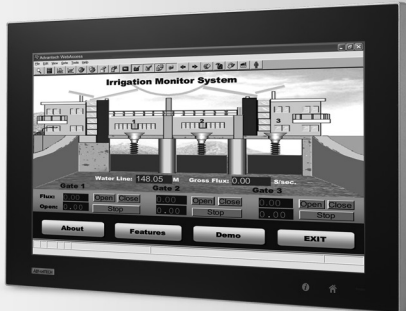# SPC-1881WP

18.5" WXGA TFT LED LCD stationary Multi-Touch Panel Computer with Intel i3 processor

iF product design award

2013

NEW

Features

- 18.5" WXGA TFT LED LCD display
- Intel® Core™ i3-4010U 1.70 GHz Processor
- 16:9 wide screen with PCT multi-touch
- Built-in function and home key button used for intuitive UI
- Anti-scratch touch surface: 7H hardness
- All around IP65 with waterproof M12 connector
- Support Mini-PCIe expansion slot
- Front LED indicator to show operating status
- Fanless cooling system
- Winner of the 2013 iF product design award

R33138 CCC CE FCC c UL us LISTED E180881 I.T.E.

Introduction

With a brand-new ID design, the SPC-1881WP series provide high resolution 18.5" display and PCT multi-touch in 16:9 wide format. By embedding an with Intel® Core™ i3-4010U 1.70 GHz Processor, the SPC-1881WP can support advanced graphical performance in more complex applications. Built-in function and home key button for greater user usability and operating safety. The SPC-1881WP also supports Mini-PCIe slot for communication function expansion. Moreover, the SPC-1881WP includes an all around IP65 waterproof design with M12 connectors. With this vertical I/O connector, cable routing can be an easy job in stationary / VESA Arm applications.

Specifications

General

- **Certification** BSMI, CCC, CE, FCC Class A, UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** 488 x 309 x 65mm (19.21" x 12.17" x 2.56")
- **Enclosure** Front bezel: Die-cast Aluminium alloy
  Back housing: Die-cast Aluminium alloy
- **Mounting** VESA Arm
- **OS Support** Windows Embedded 8.1 Industry/WES7P/WES2009
- **Power Consumption** 35 W Typical
- **Power Input** 24 V_{DC}
- **Weight (Net)** 8 kg (17.64 lbs)

System Hardware

- **CPU** Intel® Core™ i3-4010U 1.70 GHz Processor
- **Chipset** Integrated Intel 8 Series Chipset
- **Memory** 4GB SO-DIMM DDR3L SDRAM
- **LAN** 10/100/1000Base-T x 2 (connection:M12 A-coding, 8-pin female)
- **Expansion Slots** Full-sized Mini PCI-E x 1 (optional)
- **Storage** 2.5" SATA HDD
- **I/O** RS-232 x1 (connection:M12 A-coding, 8-pin male)
  USB 2.0 x1 (connection:M12 A-coding, 8-pin female)
  24 V_{DC} power input (connection:M12 A-coding, 5-pin male)

LCD Display

- **Display Type** WXGA TFT LED LCD
- **Display Size** 18.5"
- **Max. Resolution** 1366 x 768
- **Max. Colors** 16.7 M
- **Luminance cd/m²** 300
- **Viewing Angle (H/V°)** 170/160
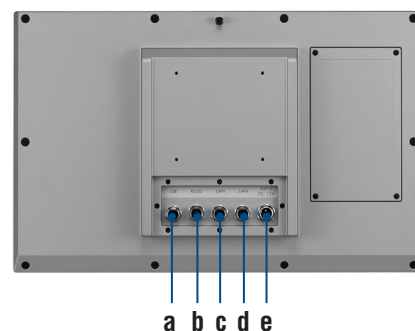- **Backlight Life** 50,000 hrs

Touchscreen

- **Light Transmission** ≥88%
- **Resolution** 4096*4096 dot
- **Type** Projected capacitive

Environment

- **Humidity** 10 ~ 95% RH @ 40°C, non-condensing
  Note: Tested for 48hrs
- **Ingress Protection** All around IP65
- **Operating Temperature** 0 ~ 55°C (32 ~ 131°F)
- **Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Vibration Protection** With HDD: 1 Grms (5 ~ 500 Hz)
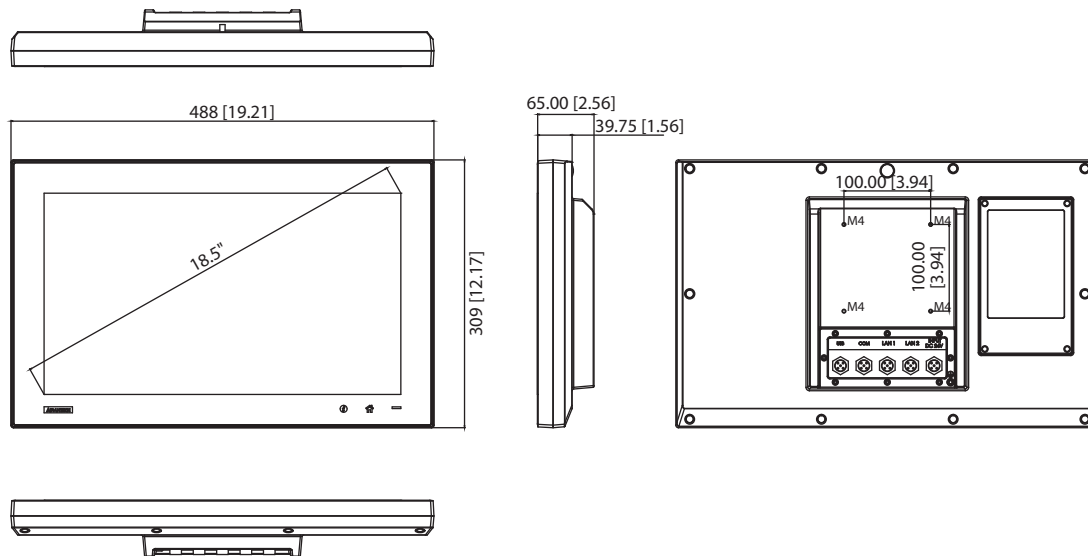 (Operating, random vibration)

Rear View

a b c d e

a. USB 2.0 with M12 connector
b. COM (RS-232) with M12 connector
c. LAN 1 with M12 connector
d. LAN 2 with M12 connector
e. 24 V_{DC} input with M12 connector

Dimensions

Unit: mm

488 [19.21]

18.5"

309 [12.17]

65.00 [2.56]

39.75 [1.56]

100.00 [3.94]

M4

M4

100.00 [3.94]

M4

M4

USB   COM   LAN 1   LAN 2   DC IN

Ordering Information

- **SPC-1881WP-433AE**   18.5" WXGA stationary Multi-Touch Panel PC, 4GB
- **WA-SPC1881WP**   SPC-1881WP-433AE with WebAccess software

Accessories

- **PWR-247-BE**   63W DC 24V/2.62A Output Power Supply
- **1702002600**   Power Cable US Plug 1.8 M
- **1702002605**   Power Cable EU Plug 1.8 M
- **1702031801**   Power Cable UK Plug 1.8 M
- **1700000596**   Power Cable China/Australia Plug 1.8 M
- **EWM-W151H01E**   802.11bgn RTL8188EE 1T1R, Half-size Mini-PCIe (also need 9656EWMG00E)
- **9656EWMG00E**   Half-size miniPCIe to Full-size miniPCIe bracket set
- **1750007668-01**   Waterproof Wireless Antenna R/P SMA.M2dB L=86.7
- **1750003418**   Wireless Antenna AN2400-5901RS R/P SMA.M9dB
- **SPC-1881WP-MCKE**   M12 cable accessory kit for SPC series
- **SPC-1881WP-MOKE**   M12 Connector accessory kit for SPC series

Automation Software

- **968WEXP003X**   PanelExpress V2.0 300 tags S/W license
- **968WEXP015X**   PanelExpress V2.0 1500 tags S/W license
- **968WEXP050X**   PanelExpress V2.0 5000 tags S/W license
- **968WEXP2USB**   PanelExpress V2.0 S/W USB dongle

Application Software

SUSIAccess	Version : V2.1 or above An innovative remote device management software, allowing efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.
WebAccess	Version : V7.1 or above WebAccess, as the core of Advantech's IoT solution, is full web browser-based software package for HMI and SCADA software. All HMI and SCADA software features including: Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs, are available in a standard web browser. WebAccess is built around the latest internet technologies. With its open architecture, vertical domain applications can easily be integrated.
PANELEXPRESS Designed for Convenience	Version : V2.0.3.8 or above Panel Express, a windows based HMI mini SCADA, realizes the cross platform flexibility offered by WebOP Designer to switch hardware for the consideration of cost and performance become an easy job. Panel Express software provides the best economic and express solution for data intensive high-end HMI applications.
WebOP Designer	Version : V2.0.3.8 or above An easy to use integrated development tool featuring solution-oriented screen objects, high-end graphics, Windows fonts for multi-language applications. WebOP runtime, a part of WebOP Designer, guarantees reliability and performance because of the minimum system overhead, high communication data rates, and sub-second screen switching.
WebAccess/NMS	Visualizing device and platform network connectivity conditions and offering easier firmware and configuration solutions to ensure stable network connections.