SPC-1840WP
SPC-2140WP

18.5" WXGA TFT / 21.5" Full HD LED LCD stationary Multi-Touch Panel Computer

iF product design award

2013

Features

- 21.5" Full HD TFT LED LCD display / 18.5" WXGA TFT LED LCD
- AMD dual-core 1.6GHz processor with independent GPU, advanced graphical performance
- 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

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

Introduction

With a brand-new ID design, the SPC-2140WP series provide high resolution 21.5" display and PCT multi-touch in 16:9 wide format. By embedding an AMD T56N 1.6GHz processor with independent GPU, the SPC-2140WP 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-2140WP also support Mini-PCIe slot for communication function expansion. Moreover, the SPC-2140WP 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)** — 21.5": 558.4 x 349.8 x 65 mm (21.98" x 13.77" x 2.56")
  18.5": 488 x 309 x 65 mm (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** — Microsoft® Win7/8/WES7P/XP/WES2009
- **Power Consumption** — 35 W Typical
- **Power Input** — 24 V_{DC}
- **Weight (Net)** — 9 kg (19.8 lbs)

System Hardware

- **CPU** — AMD G-series T56N 1.6GHz
- **Chipset** — AMD A50M FCH
- **Memory** — 4GB SO-DIMM DDR3 SDRAM
- **LAN** — 10/100/1000Base-T x 2 (connection:M12 A-coded, 8-pin female)
- **Expansion Slots** — Full-sized Mini PCIe slot x 1 (optional)
- **Storage** — 2.5" SATA HDD bracket x 1
- **I/O** — RS-232 x1 (connection:M12 A-coded, 8-pin male)
  USB 2.0 x1 (connection:M12 A-coded, 8-pin female)
  24 V_{DC} power input (connection:M12 A-coded, 5-pin male)

LCD Display

- **Display Type** — 21.5": Full HD TFT LED LCD
  18.5": WXGA TFT LED LCD
- **Display Size** — 21.5" / 18.5"
- **Max. Resolution** — 21.5": 1920 x 1080
  18.5": 1366 x 768
- **Max. Colors** — 16.7 M
- **Luminance cd/m²** — 300
- **Viewing Angle (H/V°)** — 21.5": 178/178
  18.5": 170/160
- **Backlight Life** — 50,000 hrs

Touchscreen

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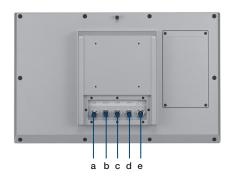- **Resolution** — 4096*4096 dot
- **Type** — Projected capacitive

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

ADVANTECH **Domain Focused HMI**

Dimensions

Unit: mm [inch]

558.4[21.98] / 488 [19.21]

65.00 [2.56]

39.75 [1.56]

349.8 [13.77] /309 [12.17]

21.5"/18.5"

100.00 [3.94]

M4 M4

100.00 [3.94]

M4 M4

Ordering Information

- **SPC-2140WP-T3AE** 21.5" full-HD stationary Multi-Touch Panel PC, 4GB
- **SPC-1840WP-T3AE** 18.5" WXGA stationary Multi-Touch Panel PC, 4GB

Optional Accessories

- **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-1840WP-MCKE** M12 cable accessory kit for SPC series
- **SPC-1840WP-MOKE** M12 Connector accessory kit for SPC series

Application Software

WebAccess/SCADA	Advantech WebAccess is a 100% web based SCADA (Supervisory Control And Data Acquisition) software and it acts as an IIoT Platform providing open interfaces for partners to develop IoT applications for different vertical markets. In addition to traditional SCADA functions, WebAccess has an intelligent Dashboard, to provide users with cross-platform, cross-browser data analysis and user interface using HTML5 technology. As well as the built-in widgets, WebAccess also provides Widget Builder to allow customers to build their own.
WebAccess/HMI	WebAccess/HMI is Human Machine Interface (HMI) software based on Microsoft's Windows operating system. It utilizes a PC's ample resources, ie speed, storage, multimedia, peripheral devices, and large screen to produce a complex human-machine interface. WebAccess/HM with its communication and monitoring ability supports more than 350 PLC communication protocols and a wide choice of screen design objects, to satisfy multiple integrations of factory automation and all-round human-machine interface operation and monitoring requirements.