SPC-221

21.5" Full HD LED LCD Stationary Multi-Touch Panel Computer

product design award 2013

Features

- 21.5" Full HD TFT LED LCD display
- Intel® Skylake Core™ i3-6100U 2.3 GHz processor (Dual-Core)
- 16:9 wide screen with PCT multi-touch
- Built-in function and home key buttons for intuitive UI
- Anti-scratch touch surface: 7H hardness
- All-round IP66 protection with waterproof M12 connector
- Supports Mini-PCIe expansion slot
- Front LED indicator to show operating status
- Fanless cooling system
- Winner of the 2013 iF product design award

Introduction

With a brand-new ID design, the SPC-221 series have high resolution 21.5" displays and PCT multi-touch screens in 16:9 wide format. By embedding an Intel® Skylake Core™ i3-6100U 2.3 GHz processor (Dual-Core), the SPC-221 can support advanced graphical performance in complex applications. It has built-in function and home key buttons for greater usability and also supports a Mini-PCIe slot for communication function expansion. It also has an all-round IP66 waterproof casing design with M12 connectors. With this vertical I/O connector, cable routing is simplified, safer, and more reliable for 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")
Enclosure	Front bezel: Die-cast Aluminium alloy Back housing: Die-cast Aluminium alloy
Mounting	VESA Arm
OS Support	Microsoft® Win7/8/10/WES7P
Power Consumption	35 W Typical
Power Input	24 V_{DC}
Weight (Net)	9 kg (19.8 lbs)

System Hardware

CPU	Intel 6th Core U-series - Intel Core i7-6600U, 2.6GHz (optional) i5-6300U, 2.4GHz (optional) i3-6100U, 2.3GHz Celeron-3955U, 2.0GHz (optional)
Memory	8GB SO-DIMM DDR3L 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
Display Size	21.5"
Max. Resolution	21.5": 1920 x 1080
Max. Colors	16.7 M
Luminance cd/m²	300
Viewing Angle (H/V°)	21.5": 178/178
Backlight	Life 50,000 hrs

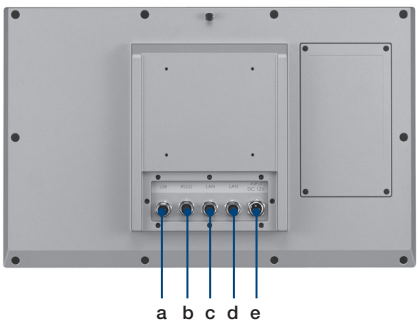
Touchscreen

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-round IP66 protection
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

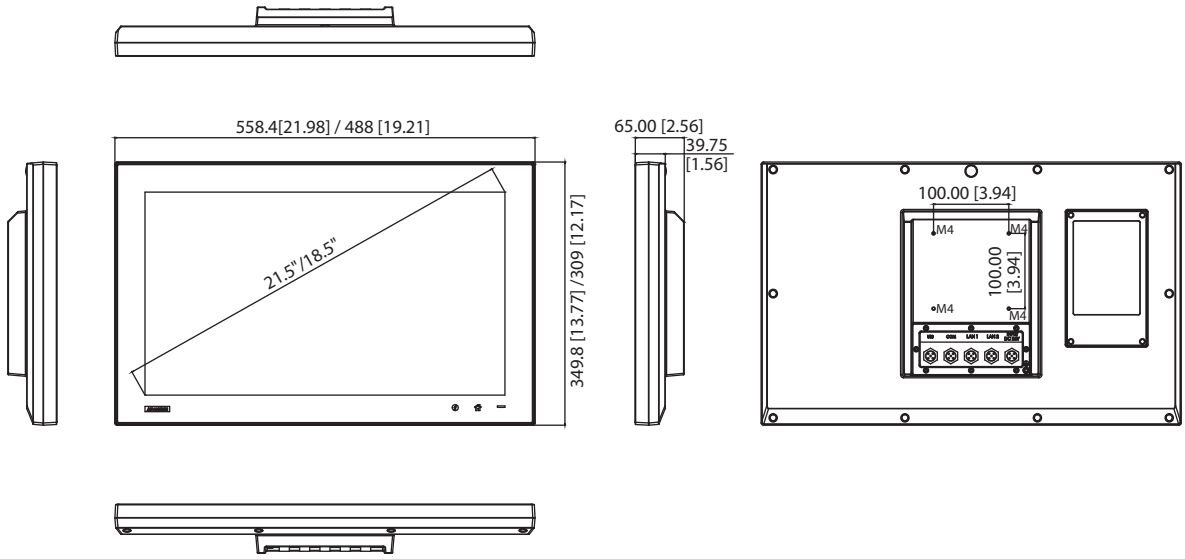


a. USB 2.0 with M12 connector
b. COM (RS-232) with M12 connector
c. LAN 1 with M12 connector
d. LAN 2 with M12 connector
e. 24 V_{DC} input with M12 connector

All product specifications are subject to change without notice.

Dimensions

Unit: mm [inch]



Ordering Information

- **SPC-221-633AE** 21.5" full-HD Stationary Panel PC / I3-6100U,8GB

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.