



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

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-PCle 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-PCle 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) 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

Microsoft® Windows 10 Enterprise LTSB **OS Support**

Power Consumption 35 W Typical 24 V_{DC} 9 kg (19.8 lbs) Power Input Weight (Net)

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)

8GB SO-DIMM DDR3L SDRAM Memory

LAN 10/100/1000Base-T x 2 (connection:M12 A-coded,

8-pin female)

Full-sized Mini PCle slot x 1 (optional) Expansion Slots

2.5" SATA HDD bracket x 1 Storage

RS-232 x1 (connection:M12 A-coded, 8-pin male) I/0 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

Backlight

Display Type Full HD TFT LED Display Size 21.5" Max. Resolution 1920 x 1080 Max. Colors 16.7 M Luminance cd/m² 300 Viewing Angle (H/V°) 21.5": 178/178

All product specifications are subject to change without notice

Touchscreen

 Light Transmission Resolution 4096*4096 dot Projected capacitive Type

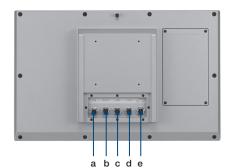
Environment

- Humidity 10 ~ 95% RH @ 40°C, non-condensing

Note: Tested for 48hrs All-round IP66 protection **Ingress Protection Operating Temperature** $0 \sim 55^{\circ}\text{C}$ (32 ~ 131°F)

Storage Temperature -20 ~ 60°C (-4 ~ 140°F) Vibration Protection With HDD: 1 Grms (5 ~ 500 Hz)

Rear View

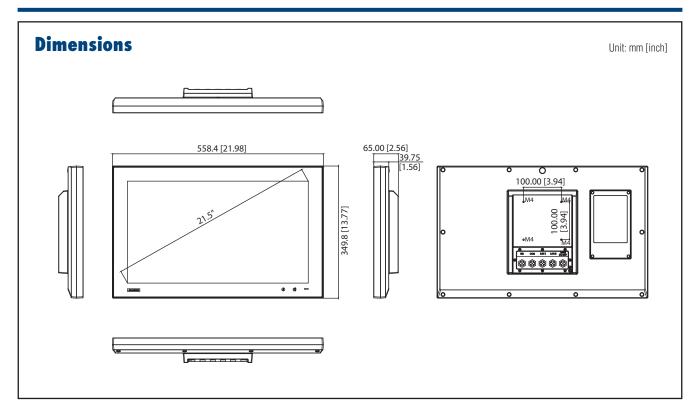


(Operating, random vibration)

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

Life 50,000 hrs



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-PCle

(also need 9656EWMG00E)

9656EWMG00E Half-size miniPCle to Full-size miniPCle 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
SPC-1840WP-MOKE
M12 cable accessory kit for SPC series
M12 connector accessory kit for SPC series

20703WX9VS0010 Windows 10 LTSC 2019 V6.04 B024 Value Image

(Standard i3 Model)

20703WX9HS0004 Windows 10 LTSC 2019 V6.04 B024 High Image (i7 Model)

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.

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries. Please contact Advantech for certificate compliance.