



2013

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



#### **Features**

- 21.5" Full HD TFT LED LCD display
- Intel<sup>®</sup> Skylake Core<sup>™</sup> 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

Fanless design **Cooling System** 

**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

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

Power Consumption 35 W Typical  $24 V_{DC}$ Power Innut 9 kg (19.8 lbs) 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 (Up to 16GB) Memory 10/100/1000Base-T x 2 (connection:M12 A-coded, IAN

8-nin female)

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

Storage 2.5" SATA HDD bracket x 1

RS-232 x1 (connection:M12 A-coded, 8-pin male) 1/0 USB 2.0 x1 (connection:M12 A-coded, 8-pin female) 24 V<sub>DC</sub> power input (connection:M12 A-coded, 5-pin

male)

#### **LCD Display**

Display Type Full HD TFT LED Display Size Max. Resolution 21.5" 1920 x 1080 Max. Colors 16.7 M Luminance cd/m<sup>2</sup> 300 Viewing Angle (H/V°) 21.5": 178/178 Backlight Life 50.000 hrs

#### **Touchscreen**

**Light Transmission** Resolution 4096\*4096 dot Projected capacitive Type

#### **Environment**

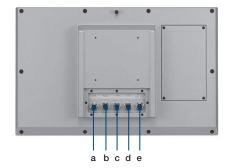
95% RH @ 40°C, non-condensing Humidity

Note: Tested for 48hrs All-round IP66 protection

**Ingress 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)

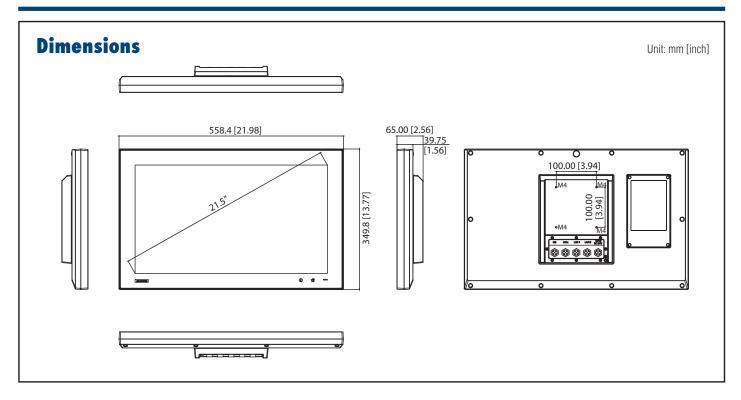
### **Rear View**



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<sub>DC</sub> input with M12 connector



# **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-W193H01E** 802.11 ac/a/b/g/n + BT 5.0 Half Mini-PCle Module

(also need 9656EWMG00E)

9656EWMG00E
1750007668-01
1750003418
SPC-1840WP-MCKE
SPC-1840WP-MOKE
20703WX9VS0010
Half-size miniPCle to Full-size miniPCle bracket set
Waterproof wireless antenna R/P SMA.M2dB L=86.7
Wireless antenna AN2400-5901RS R/P SMA.M9dB
M12 cable accessory kit for SPC series
Windows 10 LTSC 2019 V6.04 B024 Value Image
Well of the Madel

(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.			

# **Packing List**

Item	Part No.	Depiction	Qty
SC Manual	2003022100	User Manual(SC) for SPC-221 1st ed	1
Screw	1930001024	Screw M4*8L R/S D=8.9 H=2.5 + ST Ni NK	4
Screw	1930005204	Screw M4x10L R/S DH=6.8x2.50 + ST ZBK PL	4
Screw	1930000686	Screw M3x5L S/S D=5 H=1.3 (2+) ST Ni NK	4
Screw	1930001361	Screw M3x4L S/S D=5 H=1.2 (2+) ST Ni NK	4
Warranty Card	2190000902	CARDBOARD-WARRANTY REV. A2	1

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.