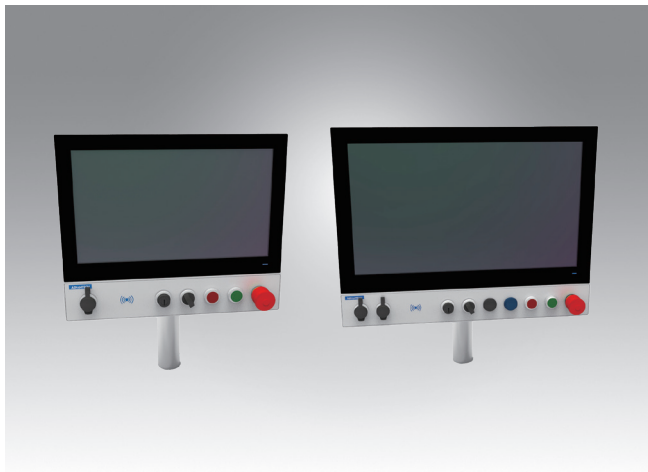# SPC-815/SPC-821 V2

15.6" /21.5" Full HD Standalone Multi-Touch Panel Computer

Features

- 15.6"/21.5" FHD TFT LED LCD display
- Intel® Core™ i3-1315URE / i5-1345URE Processor
- 16:9 widescreen with P-CAP multi-touch control
- Enhanced touch screen for impact resistance
- Silicone-free enclosure with all-round IP65-rated protection
- Supports CP 40 (Rittal) and CS-480 B.Flex (Bernstein) mount standards
- Supports the wide series of operational panel configuration
- Optional Front-facing USB port ensure easy accessibility

Introduction

SPC-800 V2 is an Poll-mounted panel PC that can be integrated with an extension unit that supports wide series of operational panel configuration. Designed to support diverse industrial mounting standards, such as CP 40 (Rittal) and CS-480 (Bernstein), SPC-800 V2 is a series of versatile panel PC that can be installed in a variety of environment. The SPC-800 V2 is powered by an Intel® Raptor Lake-U processor that delivers advanced graphical performance to facilitate the realization of field IoT applications. The panel PC is also equipped with a silicone-free enclosure that features all-around IP65-rated protection from water and dust. Moreover, with the inclusion of an I/O cover, all cables can be hidden for a tidy appearance and simplified wiring installation.

Specifications

General

Certification	CCC, CE, FCC Class A, UL
Cooling System	Fanless design
Dimensions (W x H x D)	21.5": 545.24 x 415.59 x 185mm 15.6": 400.74 x 331.76 x 185mm
Enclosure	Front bezel: Die-cast aluminum alloy Rear housing: Die-cast aluminum alloy Front push button bracket : metal sheet
Mount Options	Pole Mount (Rittal CP40 & Bernstein CS-480) VESA Mount (Optional through VESA Kit)
OS Support	Windows 11 LTSC
Power Consumption	80W
Power Input	9~32 V_{DC}
Weight (Net)	21.5": 8.5KG 15.6": 6.5KG

System

CPU	Intel® Raptor Lake-U Series Processor Intel® Core™ i3-1315URE Intel® Core™ i5-1345URE
Memory	2 x SODIMM DDR5 Slot, Max 64GB Default 8GB DDR5 4800MHZ RAM
LAN	2 x Intel I226LM controller 10M / 100M / 1000M / 2.5G
Expansion Slots	1 x M.2 2230 E-Key slot
Storage	1 x M.2 2242/2280 M-Key slot (SATA / NVME PCIe x 4)
I/O	3 x USB3.2, 1 x USB2.0 1 x Line-Out, 1 x Mic-In 1 x HDMI 1.4 1 x Display Port 1.4a
COM Port	2 x RS-232

LCD Display

Display Type	Full HD TFT LED
Display Size	21.5"/15.6"
Max. Resolution	21.5": 1920 x 1080 15.6": 1920 x 1080
Max. Colors	16.7 M
Luminance	21.5": 250 nits 15.6": 400 nits
Viewing Angle (H/V)	21.5": 178°/178° 15.6": 170°/130°
Backlight	50,000 hr lifetime

Touchscreen

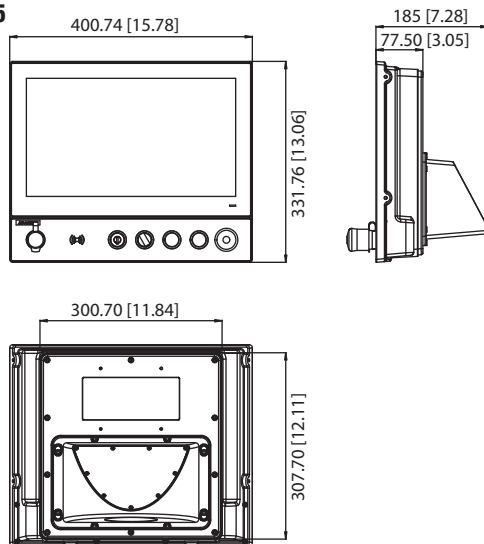|	
Light Transmission	≥88%
Resolution	4096 x 4096 dots
Type	Projected capacitive

Environment

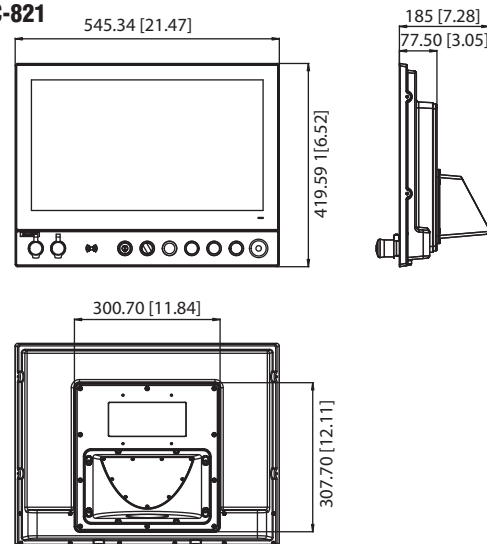|	
Humidity	95% RH @ 40 °C/104 °F, non-condensing (tested for 48 hrs)
Ingress Protection	All-round IP65 rating
Operating Temperature	0 ~ 55 °C (32 ~ 131 °F)
Storage Temperature	-20 ~ 60 °C (-4 ~ 140 °F)

ADVANTECH **Domain Focus Industrial HMI**

All product specifications are subject to change without notice. Last updated: 20-Oct-2025

Dimensions

Unit: mm [inch]

SPC-815

400.74 [15.78]

185 [7.28]
77.50 [3.05]

331.76 [13.06]

300.70 [11.84]

307.70 [12.11]

SPC-821

545.34 [21.47]

185 [7.28]
77.50 [3.05]

419.59 1[6.52]

300.70 [11.84]

307.70 [12.11]

Modular Ordering Information

Note: System Unit, Operational Panel Kit should be ordered together

System Unit

- **SPC-821-D33A**
  IP65 standalone panel PC
  21.5" FHD 1920 x 1080 P-CAP touch
  Intel i3-1315URE CPU,8 GB RAM

- **SPC-815-D33A**
  IP65 standalone panel PC
  15.6" FHD 1920 x 1080 P-CAP touch
  Intel i3-1315URE CPU,8 GB RAM

- **SPC-821-D53A**
  IP65 standalone panel PC
  21.5" FHD 1920 x 1080 P-CAP touch
  Intel i5-1345URE,8 GB RAM

- **SPC-815-D53A**
  IP65 standalone panel PC
  15.6" FHD 1920 x 1080 P-CAP touch
  Intel i5-1345URE,8 GB RAM

Operational Panel Kit

- **SPC-821-OPKA**
  21.5" operational panel kit, 1 x Front Extended USB Port

- **SPC-821-OPKB**
  21.5" operational panel kit, 1 x E-Stop, 1 x Red Push Button, 1 x Green Push Button, 1 x Blue Push Button, 1 x Key Selector, 1 x Front Extended USB Port

- **SPC-821-OPKC**
  21.5" operational panel kit, 1 x E-Stop, 1 x Red Push Button, 1 x Green Push Button, 1 x Blue Push Button, 1 x Key Selector, 1 x Front Extended USB Port, 1 x RFID Antenna*

- **SPC-815-OPKA**
  15.6" operational panel kit, 1 x Front Extended USB Port

- **SPC-815-OPKB**
  15.6" operational panel kit, 1 x E-Stop, 1 x Red Push Button, 1 x Green Push Button, 1 x Blue Push Button, 1 x Key Selector, 1 x Front Extended USB Port

- **SPC-815-OPKC**
  15.6" operational panel kit, 1 x E-Stop, 1 x Red Push Button, 1 x Green Push Button, 1 x Blue Push Button, 1 x Key Selector, 1 x Front Extended USB Port, 1 x RFID Antenna*

*NRE for RF Certification may be required, please contact local sales for additional detail.

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 plug 1.8 M
- **1700036187-01**　Certified Cat-6A S/FTP RJ45 Cable 300cm
- **1700036188-01**　Certified Cat-6A S/FTP RJ45 Cable 1500cm
- **1700036189-01**　Certified Cat-6A S/FTP RJ45 Cable 5000cm
- **1700036190-01**　Certified Cat-6A S/FTP RJ45 Cable 7000cm
- **98R1800M010**　VESA Kit for SPC-800 V2
- **96PSA-A120W24T2-4**　120W 24V_{DC} power supply

Packing List

Item	Part No.	Depiction	Qty
Plug-In Block	1652000099	PLUG-IN BLOCK 2P 90D(F) DIP MC101-50002Y DECA	1
	1652005828	TEP Screw 1x5/3.5/PA66/VA(F)/Sn/GR/H11.2/Screw	1
Grounding cable	1703011001-11	A Cable G-TEM 4.3 100CM C=GR/Y	1
Grounding screw	1935130610	Screw M3x6L R/S(TW) D=5.5 H=2 (2+) ST BIZn	1
Flange	9651800M000	Accessory Kit for SPC-800 (M) PIPE Mounting	1
Thermal Pad (RAM / M.2 M-Key)	1990026184N000	Thermal Pad 59X19.5X0.8 K=6 TP Apus-GR-Hm Snap	4
Thermal Pad (M.2 E-Key)	1990011911N000	20x20x1.0mm GR-Hm K=6 FOR SFPC84	1