SPC-815/SPC-821

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

Features

- 15.6"/21.5" (Full) HD TFT LED LCD display
- Intel® Core™ i3-6100U dual-core, 2.3 GHz processor
- 16:9 widescreen with P-CAP multi-touch control
- Built-in function keys for intuitive operation
- Scratch-resistant touch panel with 7H surface hardness
- Silicone-free enclosure with all-round IP65-rated protection
- Supports CP 40 (Rittal) and CS-480 B.Flex (Bernstein) mount standards
- Front-facing USB ensures easy maintenance
- Supports the RAFI FS22+ Series pushbuttons

iky R33138 CCC CE FCC c(UL)us LISTED E183801 I.T.E.

Introduction

SPC-800 is an arm-mounted HMI that can be integrated with an extension unit that supports RAFI FS22+ Series pushbuttons. Designed to support diverse industrial mounting standards, such as CP 40 (Rittal) and CS-480 (Bernstein), SPC-800 provides a versatile HMI that can be installed in a variety of intelligent factories and machines. The SPC-800 is powered by an Intel® Core™ i3-6100U 2.3 GHz processor that delivers advanced graphical performance to facilitate the realization of field IoT applications. The HMI 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)	SPC-815:
	402.19 x 333.19 x 67 mm/15.83 x 13.11 x 2.63 in (without flange for arm mount)
	402.19 x 333.19 x 160 mm/15.83 x 13.11 x 6.29 in (with flange for arm mount)
	SPC-821:
	546.69 x 420.34 x 67 mm/21.52 x 16.54 x 2.63 in (without flange for arm mount)
	546.69 x 420.34 x 160 mm/21.52 x 16.54 x 6.29 in (with flange for arm mount)
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 Supported)
	VESA Mount (Optional through VESA Kit)
OS Support	Microsoft® Windows 10 Enterprise LTSB
Power Consumption	60 W
Power Input	24 V_{DC}
Weight (Net)	21.5": 10.6 kg/23.3 lb
	15.6": 8.2kg/18.1 lb

System

CPU	Intel® Skylake U-series Processor
	Intel® Core™ i3-6100U, 2.3 GHz
Memory	8 GB SODIMM DDR3L SDRAM, up to 16 GB RAM
LAN	2 x 10/100/1000 BASE-T
Expansion Slots	1 x Full-sized mini PCIe (Optional through customization)
Storage	1 x 2.5" SATA HDD bracket
I/O	1 x USB 2.0 (front)
	2 x USB 3.0
COM Port	2 x RS-232/422/485 (Optional through customization)

LCD Display

Display Type	21.5" Full HD TFT LED
	15.6" HD TFT LED
Display Size	21.5"/15.6"
Max. Resolution	21.5": 1920 x 1080
	15.6": 1366 x 768
Max. Colors	16.7 M
Luminance	250 nits (21.5")
	400 nits (15.6")
Viewing Angle (H/V)	21.5": 178°/178°
	15.6": 170°/130°
Backlight	50,000 hr lifetime

Touchscreen

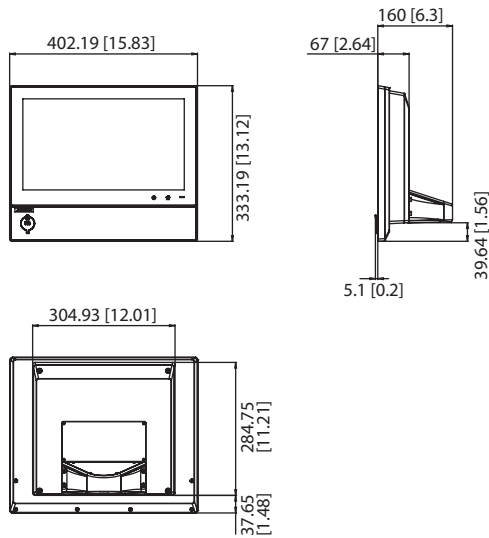|	
Light Transmission	≥88%
Resolution	4096 x 4096 dots
Type	Projected capacitive

Environment

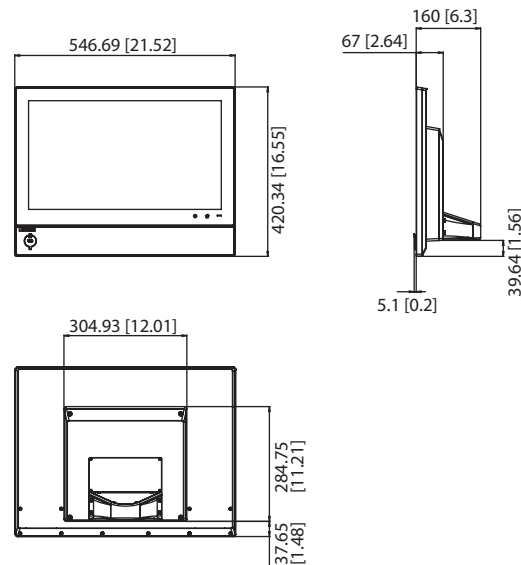|	
Humidity	95% RH @ 40 °C/104 °F, non-condensing (tested for 48 hrs)
Ingress Protection	All-round IP65 rating
Operating Temperature	0 ~ 55 °C (32 ~ 131 °F)
Storage Temperature	-20 ~ 60 °C (-4 ~ 140 °F)

Dimensions

Unit: mm [inch]

SPC-815

402.19 [15.83]
333.19 [13.12]
67 [2.64]
160 [6.3]
39.64 [1.56]
5.1 [0.2]
304.93 [12.01]
284.75 [11.21]
37.65 [1.48]

SPC-821

546.69 [21.52]
420.34 [16.55]
67 [2.64]
160 [6.3]
39.64 [1.56]
5.1 [0.2]
304.93 [12.01]
284.75 [11.21]
37.65 [1.48]

Modular Ordering Information

Notice: Base unit and Push Button Panel should order together

Base Unit

- **SPC-821-633A**   IP65 standalone panel PC
  21.5" FHD 1920 x 1080 P-CAP touch
  Intel i3-6100U CPU,8 GB RAM

- **SPC-815-633A**   IP65 standalone panel PC
  15.6" FHD 1366x 768 P-CAP touch
  Intel i3-6100U CPU,8 GB RAM

Push Button Panel

- **SPC-821-PBEK**   21.5" push button panel, 1x emergency button, 1x
  green button, 1x red button, 1 x blue button with PCBA,
  1 x big terminal board, 2 x 20-pin connector

- **SPC-815-PBEK**   15.6" push button panel, 1x emergency button, 1x
  green button, 1x red button, 1 x blue button with PCBA,
  1 x big terminal board, 2 x 20-pin connector

- **SPC-821-WOEK**   21.5" push button panel, w/o push button,w/o PCBA,
  1 x big terminal board, 2 x 20-pin connector

- **SPC-815-WOEK**   15.6" push button panel, w/o push button, w/o PCBA,
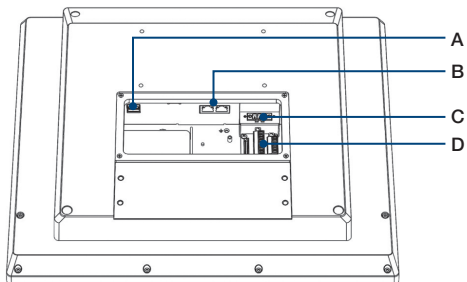 1 x big terminal board, 2 x 20-pin connector

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
- **96PSA-A60W24T2-3**   Adapter 100 ~ 240V 60W 24V 2.5A
- **98R1800M020**   Accessory Kit for SPC-800 VESA Mounting
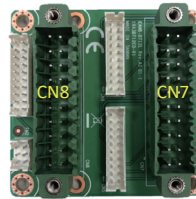- **20703WX9VS0017**   Img W10 LTSC V6.05.017 SPC-815/821-6xxAE Value

Packing List

Item	Part No.	Depiction	Qty
HDD Screw	1930001361	Screw M3x4L S/S D=5 H=1.2 (2+) ST Ni NK	4
Plug-In Block	1652007930-01	Plug-In Block 1x3P/5.08mm/PA66/F/VA/Sn/GR/H15	1
Warranty	2190000902	CARDBOARD-WARRANTY REV. A2	1
Grounding cable	1703011001-11	A Cable G-TEM 4.3 100CM C=GR/Y	1
Bracket	1960093824N001	BKT COVER IO 432C for SPC-821	1
Flange	9653800M010	Accessory Kit for SPC-800 (M) PIPE Mounting	1

Rear View

A. 2 x USB3.0
B. 2 x LAN
C. 24V$_{DC}$-Power Supply
D. Terminal Board

Push Button Pin Definition

CN8			
10	S3 NC	20	GND
9	S3 NO	19	S4 LED (+24V)
8	S3 COM	18	S3 LED (+24V)
7	S2 NC	17	S2 LED (+24V)
6	S2 NO	16	S5 NC
5	S2 COM	15	S5 NO
4	S1 NC2	14	S5 COM
3	S1 COM2	13	S4 NC
2	S1 NC1	12	S4 NO
1	S1 COM1	11	S4 COM

CN7			
10	S5 LED (+24V)	20	GND
9	S8 NC	19	GND
8	S8 NO	18	S7 LED (+24V)
7	S8 COM	17	S6 LED (+24V)
6	S7 NC	16	S10 NC
5	S7 NO	15	S10 NO
4	S7 COM	14	S10 COM
3	S6 NC	13	S9 NC
2	S6 NO	12	S9 NO
1	S6 COM	11	S9 COM