SPC-815(M) / SPC-821(M)

15.6" HD TFT LED LCD/21.5" Full HD TFT LED LCD Standalone Multi-Touch Industrial Monitor

Features

- 15.6"/21.5" (Full) HD TFT LED LCD display
- 16:9 widescreen with P-CAP multi-touch control
- Built-in function keys for intuitive operation
- Scratch-resistant touch panel with 7H surface hardness
- Front-facing LED indicators show operating status
- 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

Introduction

SPC-815 (M) and SPC-821 (M) are standalone multi-touch industrial monitors that can be pole mounted and integrated with an extension unit that supports RAFI FS22+ Series pushbuttons. Designed to be compatible with diverse industrial mounting standards, such as CP 40 (Rittal) and CS-480 B.Flex (Bernstein), SPC-815 (M) and SPC-821 (M) provide versatile monitors that can be installed in a variety of intelligent factories. The monitors are 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 : Supports Rittal CP40 and Bernstein CS-480 B.Flex arm system dimension
  VESA Mount (Optional)
- **Power Input** — 24 V_{DC}
- **Weight (Net)** — 21.5": 8 kg/ 17.6 lb
  15.6": 7.2 kg/ 15.9 lb
- **Video Input** — DP, HDMI, HD BASE-T

LCD Display

- **Display Type** — 21.5" Full HD TFT LED
  15.6" HD TFT LED (FHD optional)
- **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 (21.5")/400 (15.6") cd/m²
- **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
- **OS Support** — Windows® 7/8/10/XPe/CE and Linux
- **Hardness** — 7H
- **Multi Touch** — 10 points, USB interface in Win 7/8/10, Linux

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)

Modular Ordering Information

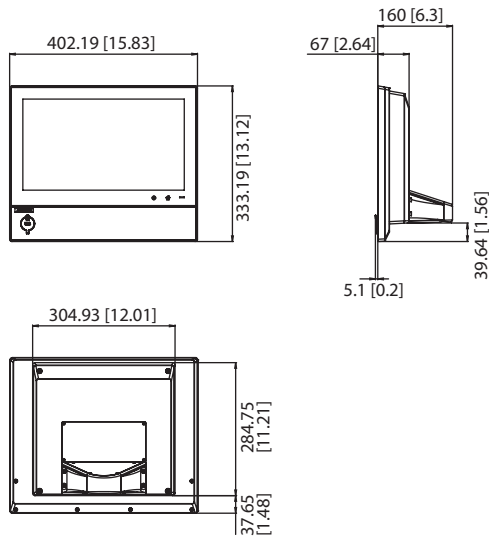Notice: Base unit and Push Button Panel should order together

Base Unit

- **SPC-821-M7A** — IP65-rated standalone monitor with 21.5" FHD, P-CAP touch, front USB, DP+HDMI
- **SPC-815-M7A** — IP65-rated standalone monitor with 15.6" HD, P-CAP touch, front USB, DP+HDMI
- **SPC-821-MLA** — IP65-rated standalone monitor with 21.5" FHD, P-CAP touch, front USB, DP+HDMI+HD Base-T (iLink)
- **SPC-815-MLA** — IP65-rated standalone monitor with 15.6" HD, P-CAP touch, front USB, DP+HDMI+HD Base-T (iLink)
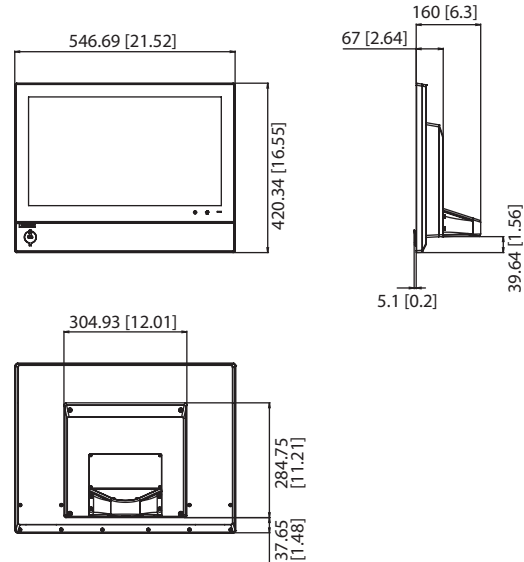
Dimensions

Unit: mm [inch]

SPC-815(M)

402.19 [15.83]

333.19 [13.12]

160 [6.3]

67 [2.64]

39.64 [1.56]

5.1 [0.2]

304.93 [12.01]

284.75 [11.21]

37.65 [1.48]

SPC-821(M)

546.69 [21.52]

420.34 [16.55]

160 [6.3]

67 [2.64]

39.64 [1.56]

5.1 [0.2]

304.93 [12.01]

284.75 [11.21]

37.65 [1.48]

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

For HD Base-T, Advantech selected box PC with iDoor PCM-29R1TX is required.
Contact your local sales or distributor for more information

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
- **96PSA-A60W24T2-3** — Adapter 100 ~ 240V 60W 24V 2.5A
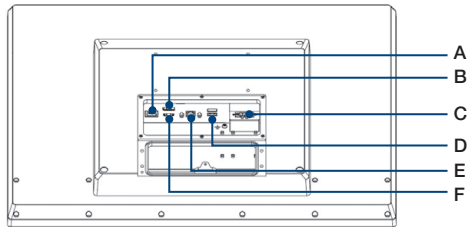- **9653800M020** — Accessory Kit for SPC-800 VESA Mounting

For Supporting WOEK expand button

- **98R30800P01** — Emergency push button PCBA with cable
- **98R30800P04** — 3 push button PCBA with cable
- **98R30800P06** — 2 push button PCBA with cable
- **98R30800P05** — 1 push button PCBA with cable

Packing List

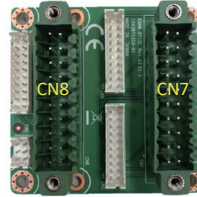| Item	Part No.	Depiction	Qty
HDD Screw	1930001361	Screw M3x4L S/S D=5 H=1.2 (2+) ST Ni NK	4
Plug-In Block	1652007930-01	Plug-In Block 1x3P/5.08mm/PA66/F/VA/Sn/GR/H15	1
Warranty	2190000902	CARDBOARD-WARRANTY REV. A2	1
Grounding cable	1703011001-11	A Cable G-TEM 4.3 100CM C=GR/Y	1
Bracket	1960093824N001	BKT COVER IO 432C for SPC-821	1
Sponge	2130020841N000	Sponge CR 164.88x92.46x0.5mm SPC-821	1
Screw	1930004607	Screw M3x4L S/S D=4.8 H=1 (2+) ST BZn	4
Cover IO	1960093839T001	COVER IO for SPC-821	1
Flange Screw	1930005722-01	Screw M6x25L SP/S D=9.8 H=6.0 h ST BLK	4

Rear View

A. RX (RJ-45)
B. DP
C. 24V_DC-Power Supply
D. 2 x USB 2.0
E. Type B USB (Connect PC)
F. HDMI

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