Domain-Focus HMI

2021 Q2 Sales Kit

Giorgio Wei, PM, Advantech

Advantech Industrial HMI and Monitor

Ideal for diverse visualization applications directly on machines/cabinet, in the plant, or centralized control rooms

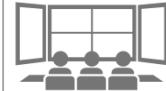*Machine Builder*   *Packaging*   *Automotive*   *Food & Beverage*   *Pharmaceutical*   *Oli & Gas*

Machine Monitor & Control

Energy Control Cabinet

Production Line Visualization

Central Control Visualization

WebAccess/HMI   CODESYS   WebAccess/SCADA   THINMANAGER   **3rd Party Software**

Configurable Panel IPC
(PPC-6000)

Embedded Control HMI
(TPC-5000)

Domain HMI
(SPC-200/500/800)

IP69K   Class I,Div.2 Explosive

Operator Panel
(WOP-2000/100/200)

Web Browser HMI
(TPC-71W)

All-in-one/Modular Thin-Client
(PPC-3000/TPC-2000)

Industrial Monitor
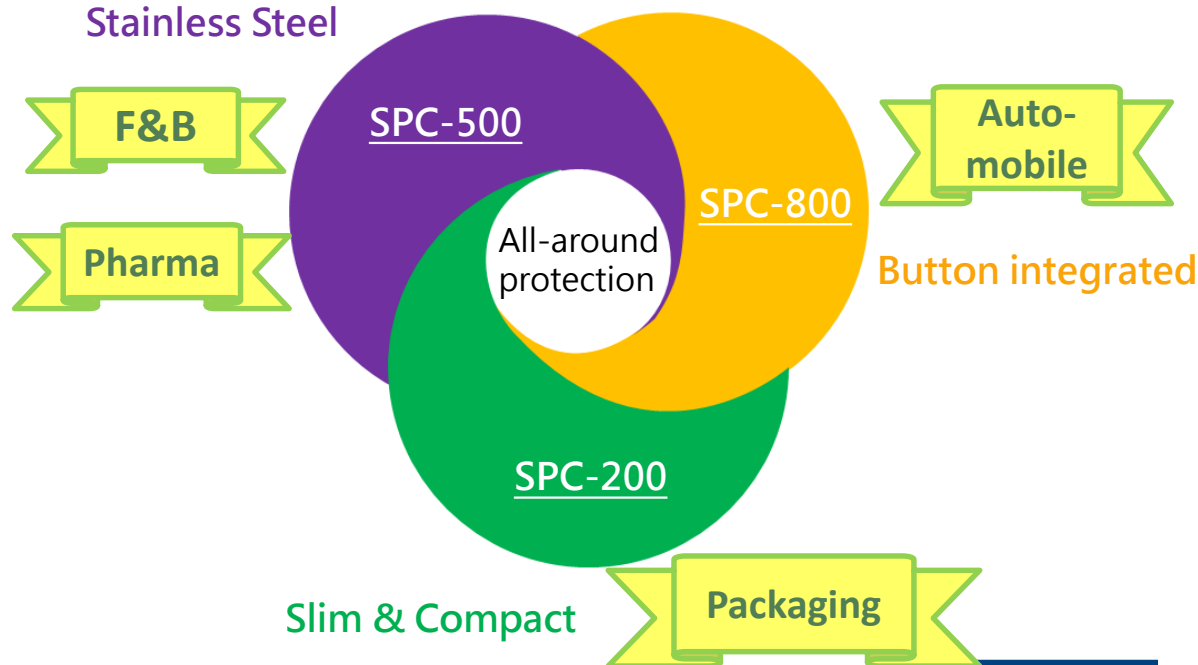(FPM-200/300/600/700/800)

ADVANTECH

Focused Industries

Explosion Proof segment

All-around Protection segment

Stainless Steel

F&B

Pharma

SPC-500

SPC-800

Auto-mobile

Button integrated

All-around protection

SPC-200

Slim & Compact

Packaging

C1D2

Oil&Gas

ADVANTECH

Domain-Focus HMI (Explosion Proof PC)

Available **Developing** **Planning**

HMI & Monitor

FPM-8151H
- 15" industrial monitor
- Front 316L Stainless Steel Bezel
- 5W Resistive touch
- DC +24V, VGA & DVI-D input
- Ground isolation; -20~60℃
- **C1D2 Certified**

MP

TPC-1881WPH
- 18.5" 16:9 350 nits FHD LED LCD
- Intel 4th Core i5, 4GB DDR3
- **C1D2 Certified**
- Multi-touch PCT, IP66
- Rich I/O & PCIe and mPCIe Slot
- iDoor & iKey support

MP

TPC-125H
- 15" TFT LCD, 50K~70K hrs
- Intel® Atom™ E3845
- Wide temp. -20~60℃ (E3800 series)
- **C1D2 Certified for explosive hazardous environment**
- IP66 true flat resistive touch
- Mini PCIe Slot (iDoor supported);Intel I210 LAN

MP

TPC-155H
- 15" TFT LCD, 50K~70K hrs
- Intel® Atom™ E3845
- Wide temp. -20~60℃
- **C1D2 Certified for explosive hazardous environment**
- IP66 true flat resistive touch
- Mini PCIe Slot (iDoor supported);Intel I210 LAN

Q2 '21

ADVANTECH

Domain-Focus HMI (Standalone PC)

Available ■ Developing ■ Planning ■

Stainless Steel HMI

FPM-8151H-R3BE
- 15" industrial monitor
- Front 316L Stainless Steel Bezel
- C1D2 Certified for hazardous area

SPC-515-633AE
- 15" PCAP Panel PC with 6th Gen CPU
- IP69K Rated Protection w/ 304L SS
- Touch film to avoid glass splash

Hot

IPPC-5211WS-J3AE
- 21.5" FHD 300nits, Celeron J1900
- IP69K Rated Protection w/ 304L SS
- Rittal CP40 arm system supported

Innovative HMI

SPC-821-633AG/P
- 21.5" PCAP Panel PC with 6th Gen CPU
- Pipe Mount w/ All-Around IP65
- RAFI FS 22+ push button supported

Hot

SPC-815-633AG/P
- 15.6" PCAP Panel PC with 6th Gen CPU
- Pipe Mount w/ All-Around IP65
- RAFI FS 22+ push button supported

SPC-821-M7AG/P
- 21.5" Full HD PCAP Touch Monitor
- Pipe Mount w/ All-Around IP65
- RAFI FS 22+ push button supported

Hot

SPC-815-M7AG/P
- 15.6" HD PCAP Touch Monitor
- Pipe Mount w/ All-Around IP65
- RAFI FS 22+ push button supported

Encapsulated Control HMI

SPC-1881WP-633AE
- 18.5" HD 300nits, PCAP TCH
- 4TH Gen. Core i3/i5/i7
- VESA Mount w/ All-Around IP66

SPC-221-633AE
- 21.5" FHD 300nits, PCAP TCH
- 6TH Gen. Core i3/i5/i7
- VESA Mount w/ All-Around IP66

Hot

ADVANTECH

Explosion Proof segment

Class/Division Definition

Hazardous Materials	Class	Division
Gasses or Vapors	Class I	Division I An explosive mixture continuously present or likely to occur during normal operation
Combustible Dusts	Class II	Division II An explosive mixture that is NOT likely to occur in normal operation...but may be accidentally present
Fibers or Filings	Class III	

ADVANTECH

Advantech Class I, Division 2 Industrial Panel PC: TPC-125H/155H

	TPC-125H/ TPC-155H
CPU	Intel® Atom™ E3845 Quad-Core 1.9GHz
RAM	Default 4GB DDR3L SDRAM (up to 8GB)
Display	Size: 12" and 15"
	Resolution: 1024x768/ 1024x768
	Colors: 16.2M/ 16.7M
	Viewing angle: 178/178; 176/176
	Luminance: 600nits/ 300nits
LAN	10/100/1000BASE-T x 2
I/O	1 x RS-232; 1 x RS-232/422/485 1 x USB 3.0 ; 3 x USB 2.0 1 x iDoor slot 1 x SSD bay; 1 x mSATA
Expansion	1 x Full-size mini PCIe
Power Input	24VDC +/- 20%
Operation Temp.	-20 ~ 60°C (-4 ~ 140 °F)
Dimension	311.8 x 238 x 55.4 /383.2x 307.3 x 55.9 mm
Mounting	Panel mount with front panel IP66
Certifications	BSMI, CCC, CE, FCC Class A, UL C1D2

UL Class 1, Division 2 Certified

Compact I/O

**Wide Temp. Range**

Front Panel IP66

In-Cabinet Design

Wireless Communication

cUL Class I Division II for Group A,B,C,D

IP66

CPU

IP66

CODESYS

WebAccess/HMI
WebAccess/SCADA

ADVANTECH

Advantech Class I, Division 2 Industrial Panel PC: TPC-1881WPH

	TPC-1881WPH
CPU	Intel 4th Generation Core i5-4300U 1.9GHz
Onboard RAM	4GB DDR3L 1600MHz SO-DIMM SDRAM (up to 8GB)
Display	Size :18.5
	Resolution:1920 x 1080
	Colors:16.7M
	Viewing angle:170/160
	Luminance:350
LAN	10/100/1000BASE-T x 2 (one port supports iAMT)
I/O	RS-232 x 1, RS-232/422/485 x 1 USB 3.0 x 2, HDMI 1.4 x 1 Audio line out x 1, USB 2.0 x 1 (optional) Audio MIC x 1 (optional)
Expansion	Full-size mini PCIe
Power Input Range	24VDC +/- 20%
Operation Temp.	0 ~ 55°C (32 ~ 131°F)
Dimension	488 x 309 x 56.7 mm (19.21" x 12.17" x 2.23")
Certifications	BSMI, CCC, CE, FCC Class A, UL C1D2
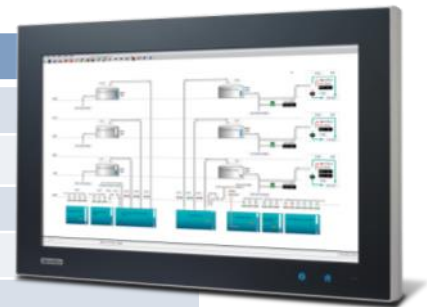
ADVANTECH

Advantech Class I, Division 2 HMI: FPM-8151H

| Model		FPM-8151H
Display	Size (diagonal)	15" XGA
	Resolution	1024 x 768
	Colors	16.2M
	Viewing Angel	160, 140
	Luminance	350
Direct VGA Input		Yes
DVI Input		Yes
Touch-screen (optional)		Resistive
OSD (On-Screen Display)		Yes
Power Adapter (AC)		100-240 V
DV Power Input		24 V_{DC}
Front Panel Ingress Protection		NEMA4/IP65
Operating Temperature		-20 ~ 60℃ (-4 ~ 140℉)
Dimensions (W x H x D)		422 x 338 x 68 mm (16.61" x 13.31" x 2.68")
Certifications		CID2 Group ABCD, T4

ADVANTECH

Drilling Rig Control

TPC-125H

- Intel® Atom™ Quad-Core
- In-Cabinet panel mount
- Front panel IP66 dust & water proof
- Resistive touch
- 2 x GbE, 4 x USB, 2 x COM, iDoor, mSATA, 1 x mPCIe, 1 x SATA, 1 x power terminal

- Data acquisition – log and archive activities of rigs and sensors

- Real-time rig monitoring and overall equipment effectiveness (OEE) analysis

- Warning and emergency control

ADVANTECH

Oil & Gas Application

FPM-8151H

- 15" 4:3 XGA TFT LCD
- Resistive touch screen
- Ruggedized enclosure
- Wide operation temperature(-20 ~ 60℃)
- CID2 Group ABCD, T4
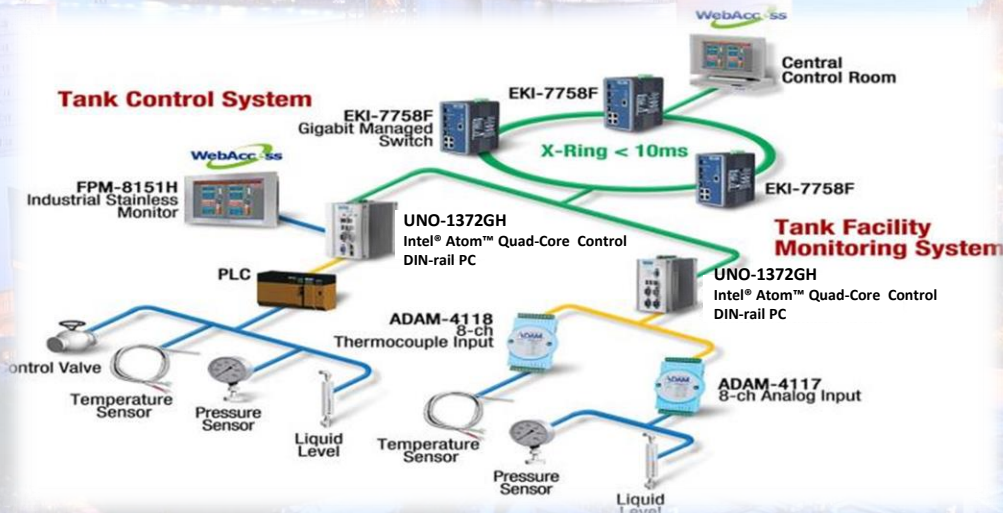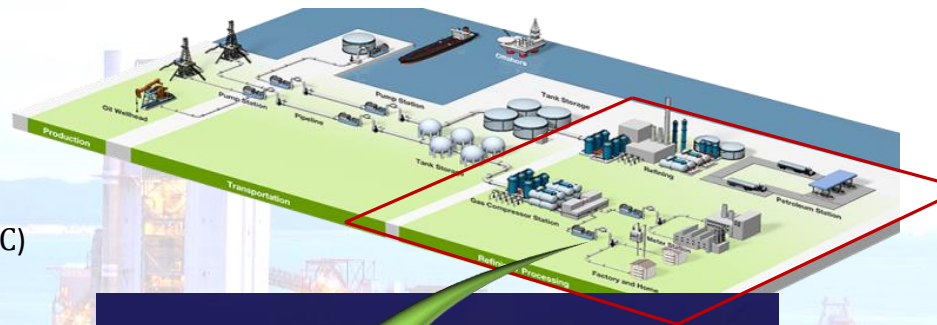

Production
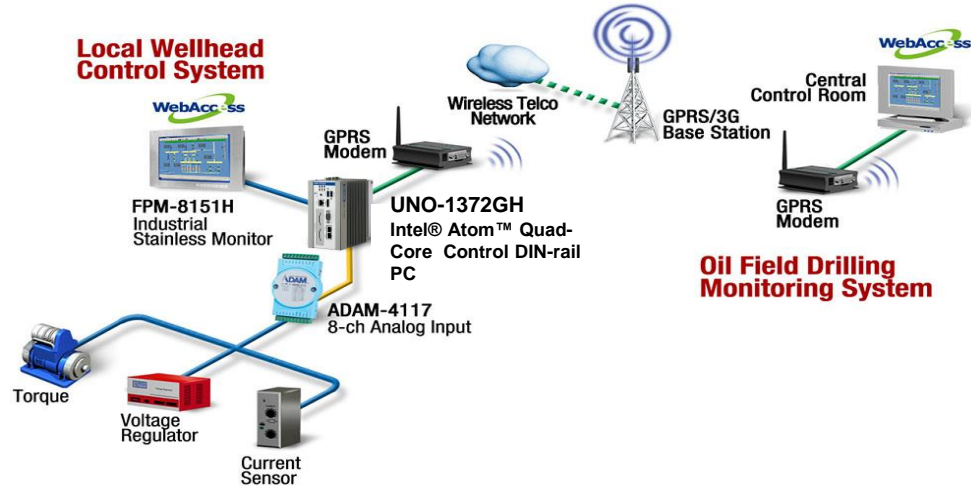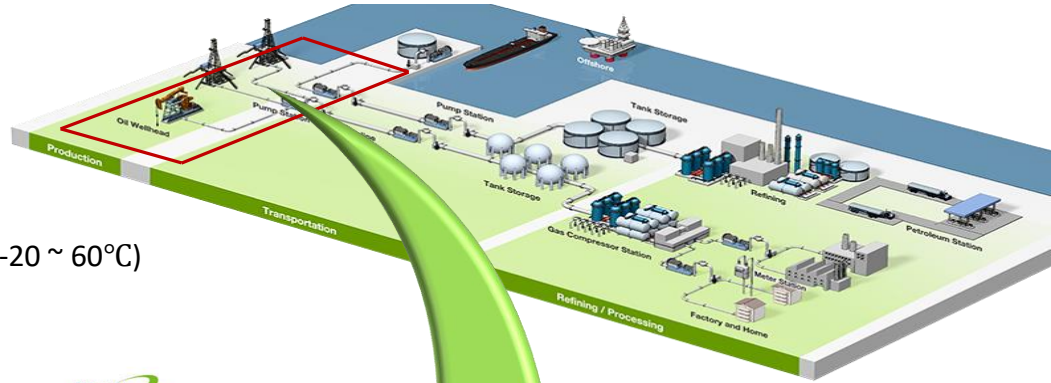
Tank Control & Monitoring

FPM-8151H

- 15" 4:3 XGA TFT LCD
- Resistive touch screen
- Ruggedized enclosure
- Wide operation temperature(-20 ~ 60℃)
- CID2 Group ABCD, T4

Oil Storage

- Real-time oil tank level monitoring
- System warning and control
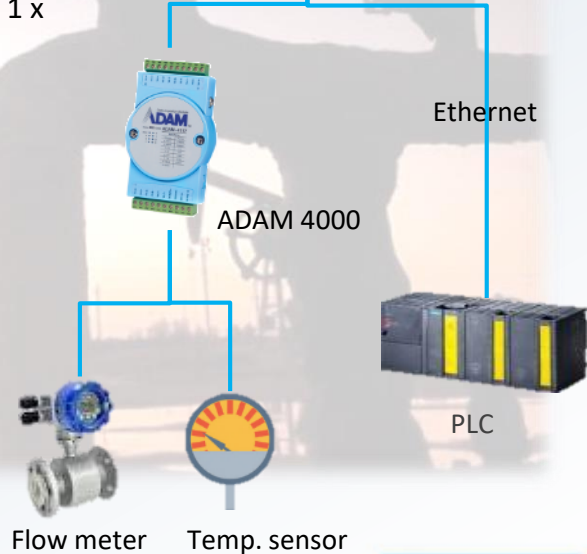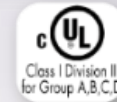- Sensor data collection, integration & transmission

Gas Compressor Control & Monitoring

TPC-125H

- Intel® Atom™ Quad-core
- In-cabinet panel mount
- Resistive touch
- 2 x GbE, 4 x USB, 2 x COM, iDoor, mSATA, 1 x mPCIe, 1 x SATA, 1 x power terminal

cUL Class I Division II for Group A,B,C,D

Ethernet

ADAM 4000

PLC

Flow meter   Temp. sensor

- Monitoring engine operational data, such as speed and load control visibility

- Collecting and aggregating data for analysis and overall equipment efficiency

ADVANTECH

Gasoline KIOSK Application

TPC-125H

- Intel® Atom™ Quad-core
- In-cabinet panel mount
- Resistive touch
- 2 x GbE, 4 x USB, 2 x COM, iDoor, mSATA, 1 x mPCIe, 1 x SATA, 1 x power terminal

Standalone segment

Platform Products Evolution in terms of mounting

NOW (Panel Mount)	FUTURE (Standalone)

Traditional HMI & Edge Computing Platforms

- *Cut-out of chamber or cabinet limited*
- *Lack of flexibility for ID design of machines*

Standalone Products

- All-Around IP protection
- Great compatibility & integration with devices

Offering of Standalone HMI

Encapsulated HMI	Stainless Steel HMI	Innovative Integrated HMI

Offering

Encapsulated HMI

SPC-200

SPC-1881WP
- 18.5" HD 300nits, PCAP TCH
- 4TH Gen. Core i3/i5/i7
- Customizable I/O configure

SPC-221-633AE
- 21.5" FHD 300nits, PCAP TCH
- 6THGen.Core3/i5/i7
- Customizable I/O configure

Stainless Steel HMI

SPC-500

FPM-8151H-R3BE
- 15" industrial monitor
- Front 316L SS Bezel
- C1D2 certified

IPPC-5211WS
- 21.5" FHD 300nits, J1900
- IP69K w/ 304L SS Enclosure
- Rittal CP40 arm system

SPC-515-633AE
- 15" PCAP PC, Core i3 6100U
- IP69K w/ 304L SS Enclosure
- VESA Mount

Innovative Integrated HMI

85.0   85.0
19.6

SPC-800

SPC-815
- 15.6" PCAP PC, i3-6100U
- Pipe Mount w/ IP65
- RAFI FS 22+ push button

SPC-821-633AG/P
- 21.5" PCAP PC, i3-6100U
- Pipe Mount w/ IP65
- RAFI FS 22+ push button

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Target "Selected" Industry of Standalone Products

	Packaging	Food & Beverage	Pharmaceutical	Automotive
Target Industry				
Environmental Requirement	Powder & Dust –proof : **All-Around IP** Domain Certification: **IEC 61131-2** Compliance Data Acquisition : **Push Button & TPM 2.0**	Daily Wash : **All-Around IP Protection** Cold Storage & Smoke Chamber : **Wide Temp.** Acid & Alkaline Resistance : **Rugged Enclosure** Domain Cert. : **EN1672-2 (EHEDG)** Compatible Design		Material limitation : **Silicone-Free** Domain Certification: **UL 61010** Compliance High Performance : **Fanless with core i3+**
Offering	*SPC-200*	*SPC-500*	*IPPC-5211WS*	*SPC-800*

ADVANTECH

Successful Standalone HMI Case Globally

PACKSIZE

The packing machine builder which required a real-time operation with all-around protection.
Packing Industry
SPC-1881WP

BOBST

Data Visualization on the packing machines. To avoid penetration of dust and ID concern so encapsulated HMI is needed
Packing Industry
SPC-2140WP

HKSCAN

The end-user is targeting a meat processing MES solutions and requesting a all-around panel PC with pipe mount solution for easily cleanable
Food & Beverage Industry
IPPC-5211WS

aspen

The end-user requires a anti-radiation HMI for the pharma manufacturing production line
Pharmaceutical Industry
IPPC-5211WS

AUSTAR 奥 星

Standalone HMI as part of the package plant export solutions for MES display and data visualization
Pharmaceutical Industry
IPPC-5211WS

ambev

For the beer-filling production line data visualization and process optimization use
Food & Beverage Industry
IPPC-5211WS

RECOGNITION ROBOTICS
The Visual Guidance Company

Real-time vision controller of the robot arm for the car manufacturing machines.
Automotive Industry
SPC-1881WP

ADVANTECH

Innovative HMI (SPC-800)

01 Plug & Play :
General I/O with All-Around Protection

02 Silicone-Free:
Great fit for high-end automotive industry

03 Extended Scope :
Independent visualization node in IIoT field

Processing & Packaging

Machine Builders

Automotive

RAFI

RITTAL

BERNSTEIN

ADVANTECH

SPC-800

All-around IP 65 rating
ensures reliable computing
in harsh environments

SPC-800 Front Look & Design Overview

Front USB 2.0 & Reset Button with waterproof rubber cover

Enhanced PCAP touch screen glass to ensure ruggedness

Printed LOGO and easily customization with MOQ 15

Built-in RAFI push buttons for intuitive operation

Available in 15.6" & 21.5"
*Noted: Push Button & Extension can be customized*

ADVANTECH

SPC-800

Button-integrated design
delivers intuitive operation

Standard Product : SPC-800

*Data Visualization in higher standard plant*

- *All-Around IP Protection with invisible cables allow the wire arranging to be more simple*

- *Front USB / Re-set Button to allow user to maintain the HMI easily, no need to remove the tube & flange for maintenance*
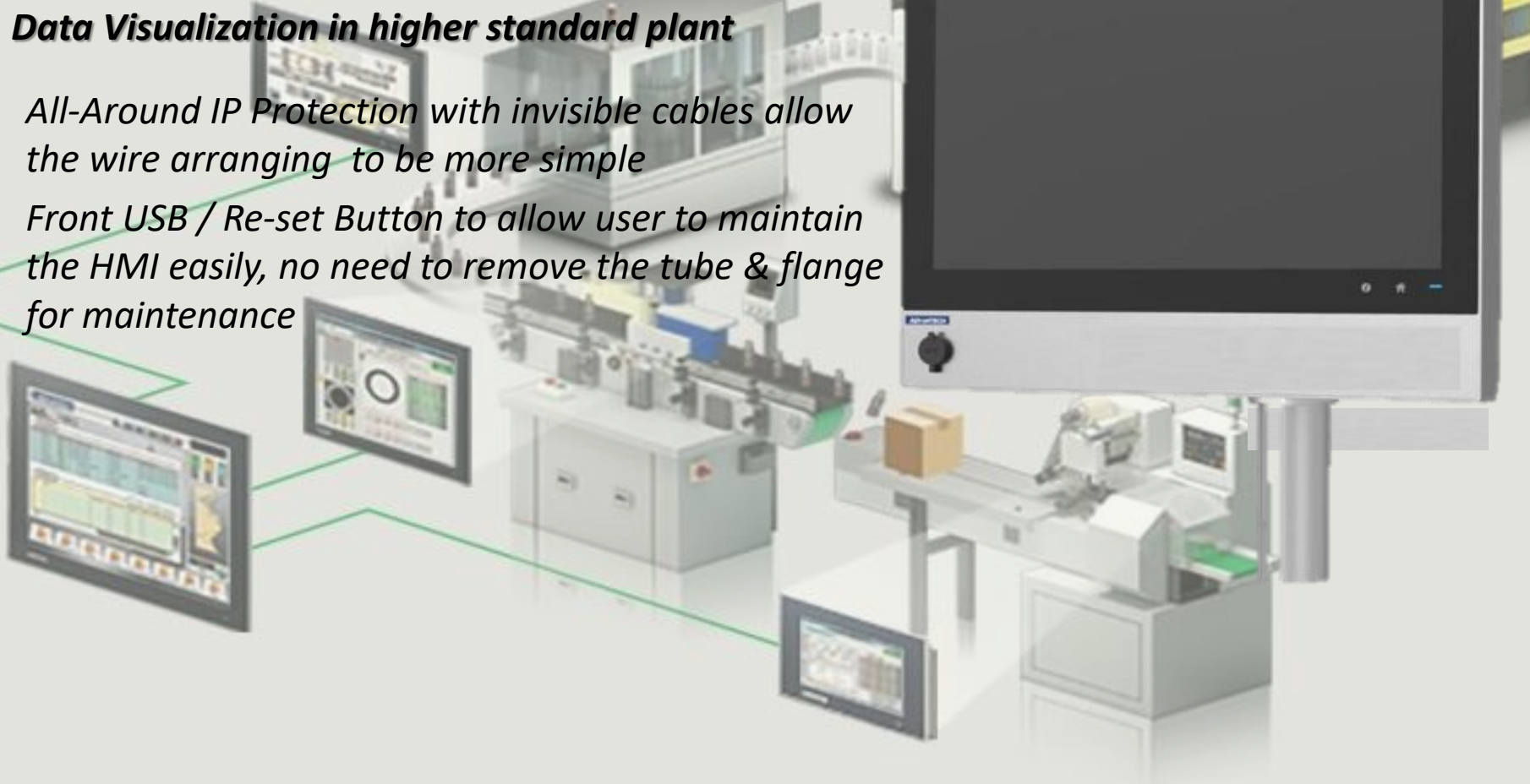
Intelligent Operator Panel
Operator Panel for Automotive plant Assembly Line

- *Hot-Keys with push-button to provide more physical feedback to raise the production efficiency*

- *NFC card reader allowed more application possibility on information security and faster information authentication process*

ON

OFF

PAUSE
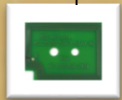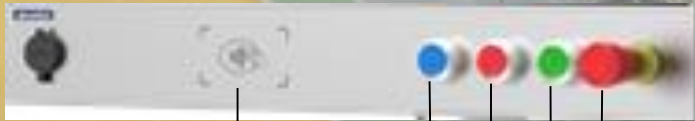
Emergency Stop

NFC Card Reader

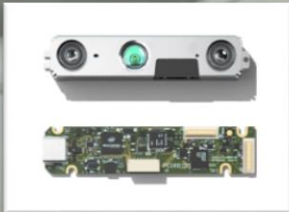Allowed Ops to authenticate the
ID before access important parts

Robotic HMI
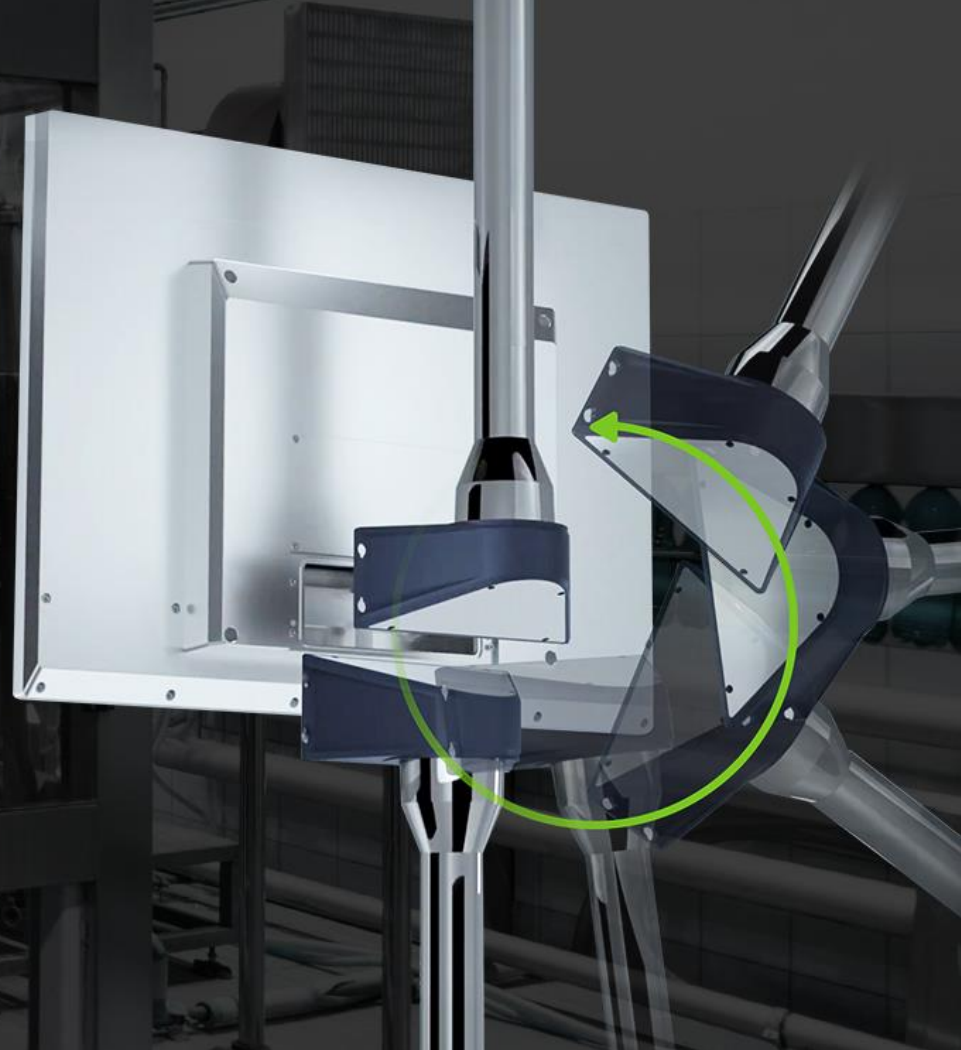
HMI with real-time capture camera

- *Cost-effective real-time motion capture camera with capability to outline the space of current location*

- *Intel® RealSense SDK allowed developer to interlock and updated at the first glimpse*

Intel D435 Cameras (USB driven)

SPC-800

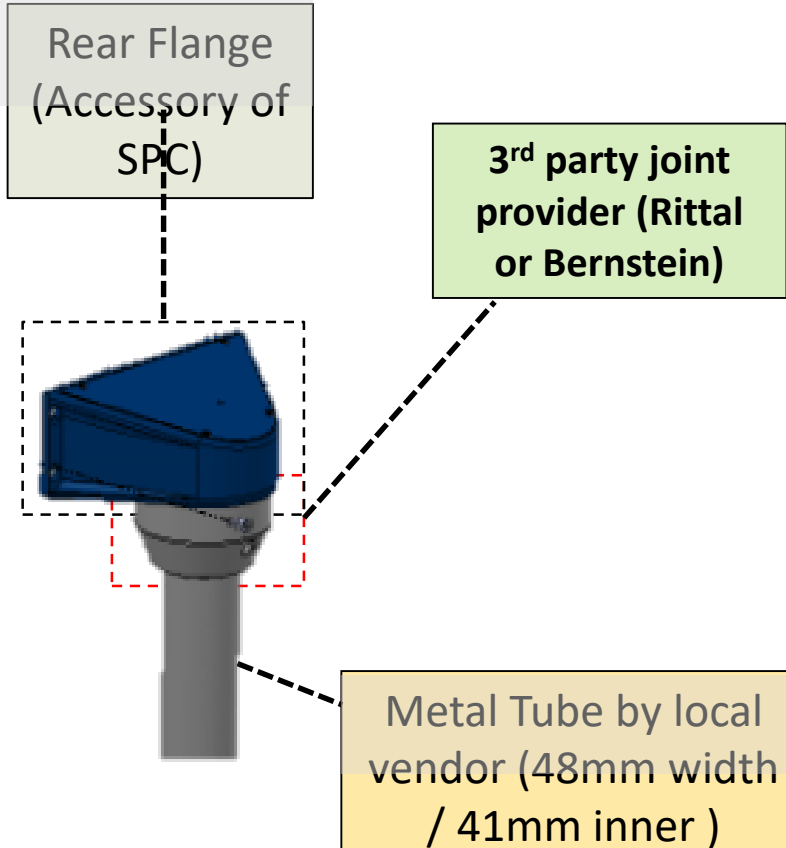Flexible mounting for
cabinet-free installation

Product Rear Side Overview

BERNSTEIN

RITTAL

- **Same Rear Flange for both Pendant and Pedestal mounting ways**
- **Support most common 3rd party arm system provider globally : Rittal & Bernstein**

ADVANTECH

3rd Party Arm System Support

Rear Flange (Accessory of SPC)

3rd party joint provider (Rittal or Bernstein)

Metal Tube by local vendor (48mm width / 41mm inner)

	Rittal	Bernstein
Supported Model	CP40 (with narrower tube)	CS-480 B.Flex
Maximum Load	400N	500N (1m length of the extension arm)
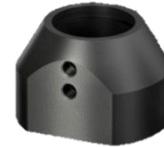
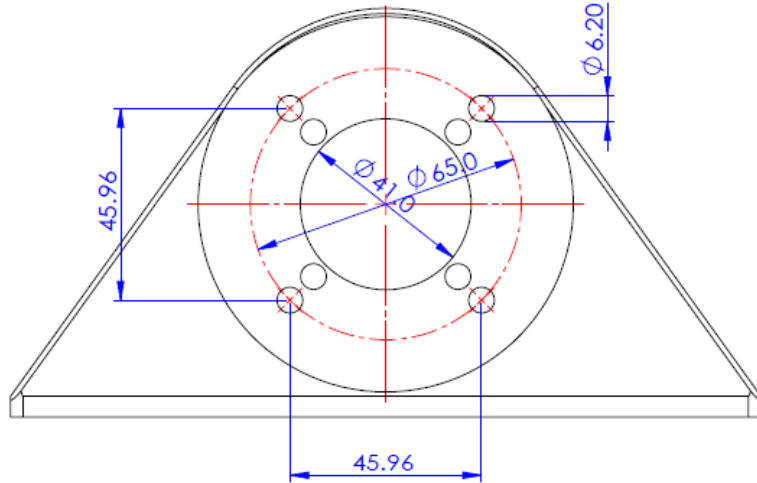CP 6501.050 (Steel)   CP 6501.070 (Steel)   CP 6501.120 (Steel)

CS-480 B.Flex

*For Rittal CP40 series, there are some limitation regrading to the screw dimension. Not all CP40 can be supported.
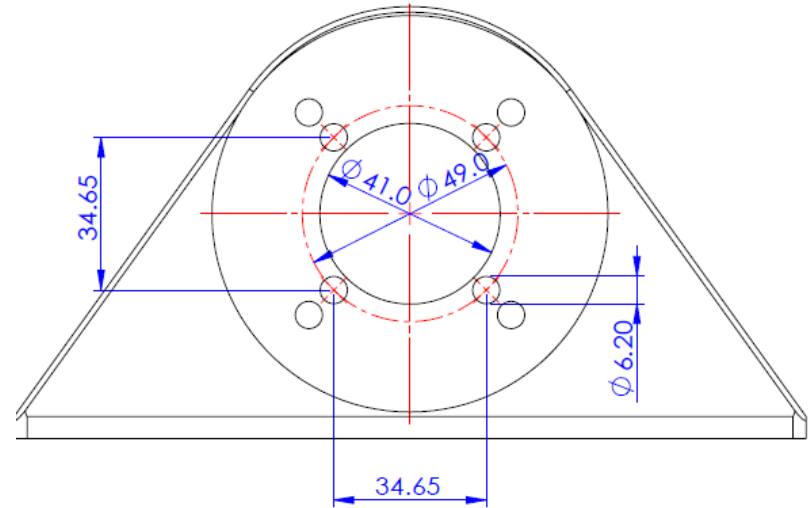*Contact your local Advantech contact window for more information

RITTAL

BERNSTEIN

ADVANTECH

SPC-800 Flange Installation Guidance

- Flange of SPC-800 supports 2 set of screw dimension for both Rittal & Bernstein
- For Rittal CP40, not all P/N can be supported by SPC-800.
- Please make sure the connected screw dimension be 65mm (diameter) & 46mm (length between holes)

SPC-800

New HMI with integrated
buttons facilitates data
visualization

Push Button Connection
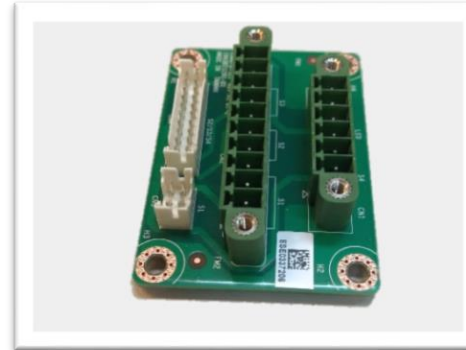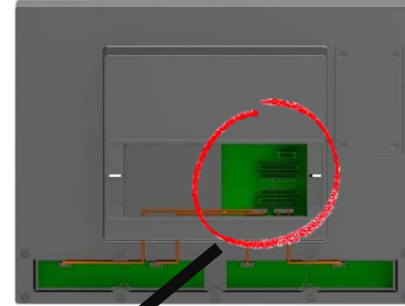
Main Model Selection (Pre-Configured Button Model)				
P/N	SPC-821-633AP	SPC-815-633AP	SPC-821-M7AP	SPC-815-M7AP
Type	21"Panel PC	15" Pane PC	21" Monitor	15" Monitor
Push Button	3	3	3	3
Emerg. Button	1	1	1	1
Front USB	V	V	V	V

Panel Size	Max. Buttons Supported	Max. LED Buttons Supported
SPC-815	7	6
SPC-821	10	8

- **Terminal Board will pre-installed in the standard model with push button configure**
- **Users follow the pin definition and connected to end devices directly with terminal block**

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Terminal Board Wiring Diagram

Wiring Diagram

Button Header cable

Push Button PCBA

Terminal Block

Terminal Board

External End Devices

Button Header cable are pre-installed for standard button model P/N

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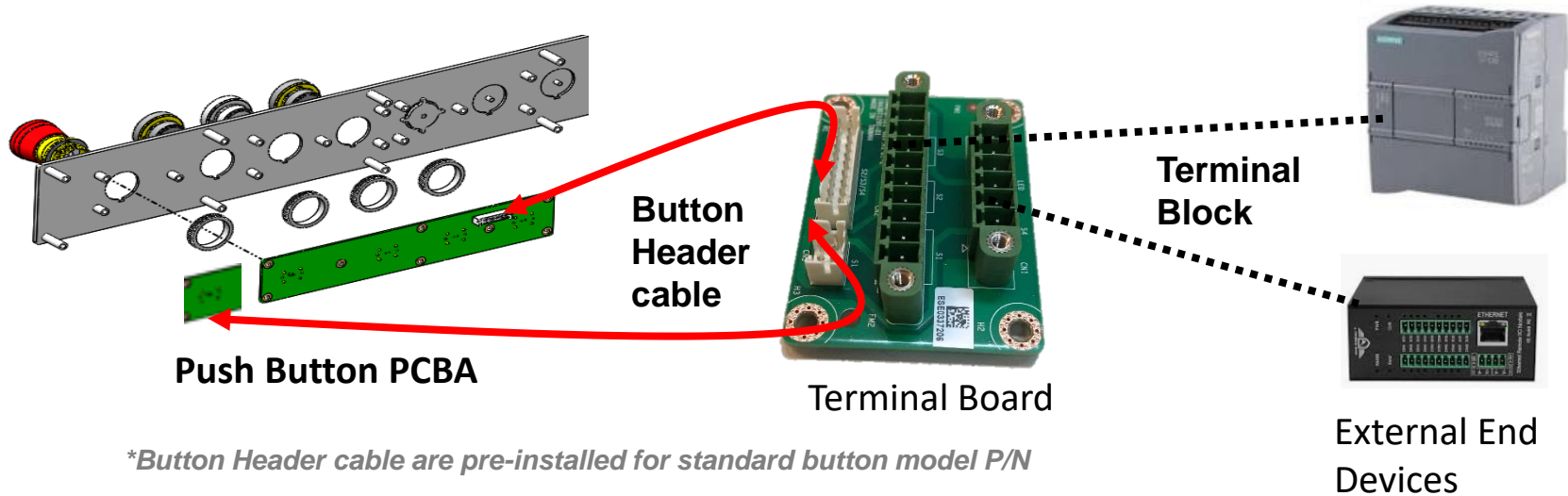
SPC-800 Ordering Information

-AG

-AP

Main Model Selection (Standard Model)				
P/N	SPC-821-633AG	SPC-815-633AG	SPC-821-M7 (L)AG	SPC-815-M7(L)AG
Type	21"Panel PC	15" Pane PC	21" Monitor	15" Monitor
Push Button	N/A (Required to order accessory for push button assembly)			
Emerg. Button				
Front USB	V	V	V	V

Button Main Model Selection (Pre-Configured Button Model)				
CTOS P/N	SPC-821-633AP	SPC-815-633AP	SPC-821-M7(L)AP	SPC-815-M7(L)AP
Type	21"Panel PC	15" Pane PC	21" Monitor	15" Monitor
Push Button	3	3	3	3
Emerg. Button	1	1	1	1
Front USB	V	V	V	V

*It can be equipped with push button by either "Ready-to-go Push Button Bracket" or pick up "Button Accessory" separately

ADVANTECH

Stainless Steel HMI Introduction

SPC-515

FPM-815S/817S

IPPC-5211WS

FPM-8151H

Waterproof & Dustproof (IP)

- Daily High-pressure water clean
- All-Around IP69k protection design

Rugged 304L (V2A) SS Housing

- Withstand fully clean with disinfectants / cleanser / Acid & Alkali
- Highly hygiene concerned

Ubiquitous Mounting Ways in Different Field

- Panel Mount : FPM-800
- VESA w/ IP69k : SPC-515
- Pipe w/ IP69k : IPPC-5211WS

Food Process Industry-Friendly

- Touch ON/OFF via iKey
- Optional F/W for gloves
- *EN 1672-2* compliance
- *C1D2* Solutions for hazardous regions

ADVANTECH

Stainless Steel HMI in Factory Automation

01
- **Field** : Weighing Room
- **Requirement** : SS Enclosure / low performance / Invisible Cables

Unique Selling Points:
- Cost-effective HMI Solutions
- Panel Mount would be great chouces

- **Suggestion Model :**
  - FPM-8151H
  - FPM-815S
  - FPM-817S

02
- **Field** : Manufacturing
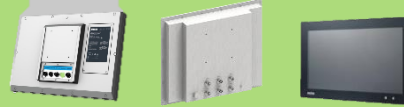- **Requirement** : High Performance / IP Protection

Unique Selling Points:
- All-Around IP66/69k or Front IP66
- High Stabililty

- **Suggestion Model :**
  - SPC-221 / SPC-515

03
- **Field** : Packaging
- **Requirement** : Rugged 304L SS Housing / Certification / Sustain to chemical ingredients

Unique Selling Points:
- High hygeine concern (certification)
- All-Around IP69k

- **Suggestion Model :**
  - SPC-515 / IPPC-5211

ADVANTECH

IPPC-5211WS Introduction

- 304L Stainless Steel Enclosure

- Touch enable/disable function to ensure safety during washing

- Front side or all-around IP69k protection

- All of the IO ports can be locked by screws in order to

  avoid unintended unplugging during assembly.

VESA ➡ IP69K : Frond side

Flange connection adapter ➡ IP69K : All around

Arm system

Foot system

with keyboard

Foot and Arm

ADVANTECH

IPPC-5211WS Key Differentiation with Competitors

General I/O w/ Cover Design

General I/O such as USB 2.0 / RJ45 / RS-232 to ensure users the best compatibility for other devices

Pipe Mount

Supports most common pipe width dimension & RAFI joint screw dimension (Pedestal & Pendent)

Stainless steel hex head cap screws (Only 4 screw at the rear)

Easier to clean instead of traditional screws

Screw-less Design at the rear cover

One-piece rear cover with 30mm thickness stainless steel raw material to ensure best hygiene reaquriment

RITTAL

ADVANTECH
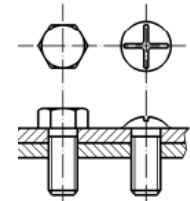
IPPC-5211WS Ordering Information

STEP 1
Choosing rear cover material

Aluminium or Stainless Steel

Rear Cove Type	P/N
Aluminium Cover (Black Cover)	IPPC-5211WS-J3AE
Stainless Steel Cover (Silver Cover)	IPPC5211WSJ1501E-T

STEP 2
Choosing Mounting Ways

Flange Adapter

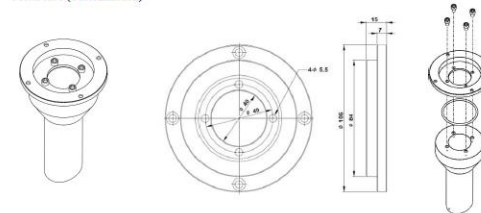| Mounting Ways	P/N
VESA	No Flange Adapter Needed (Only front IP69k)
Pipe Mount (non stainless steel / Black)	IPPC-5211WS-EMKE (Full IP69k Protection)
Pipe Mount (Stainless Steel / Silver)	IPPC-5000-FLAE (Full IP69k Protection)

STEP 3
Tube & Arm System Selection

| Arm System Support |
|---|
| The metal tube would require local supply (Support Rittal CP40 installation dimension) |

• Metal tube (Customization)

SPC-515 Introduction (VESA + M12 Solution)

Model	SPC-515	
Display	Size (diagonal)	15" XGA
	Resolution	1024 x 768
	Luminance	300
	Backlight Life	70000
CPU	Core i3 6100U / Celeron 3955U (optional)	
RAM	DDR3L 8GB	
Touch-screen	PCAP with enhanced glass	
DV Power Input	24 V$_{DC}$	
I/O	M12 A-Coded: USB*2 / COM*1 / LAN*2 / POWER*1	
IP Protection	All-Around IP69k	
Operating Temperature	0~ 50℃	
Surface Treatment	Hair-Line Finished	
Mounting	VESA 100x100	
Certifications	EN1672-2 / CE / FCC / CB / UL62368	

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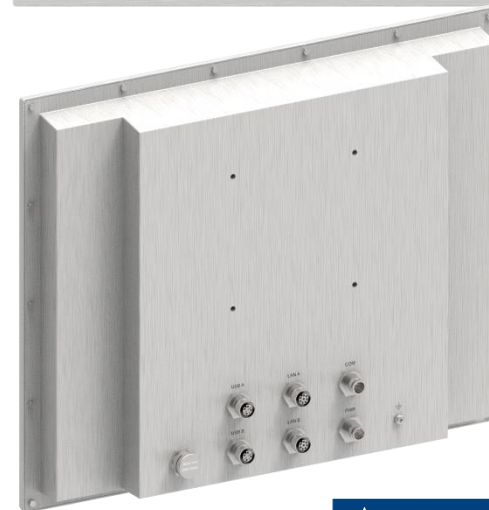
Hygiene-concerned Rear-cover design of SPC-500

Bevel at all edges

All bevels to ensure the water drip would drop normally instead of flooding

Pressure-relief Valve

Allow air flow under IP69k protection to speed up the process of foggy on touch screen glass

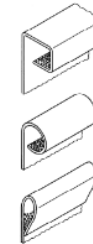**Stainless steel hex head cap screws (Good for clean)**

Easier to clean instead of traditional screws

M12 A-Code Conn.:
Power*1 / USB*2 /LAN*2/COM*1

Flexible on I/O Customization

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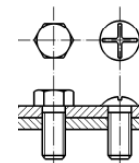
SPC-515 Key Differentiation with Competitors

Protective Film

Protective Film on touch screen to avoid glass shards splash
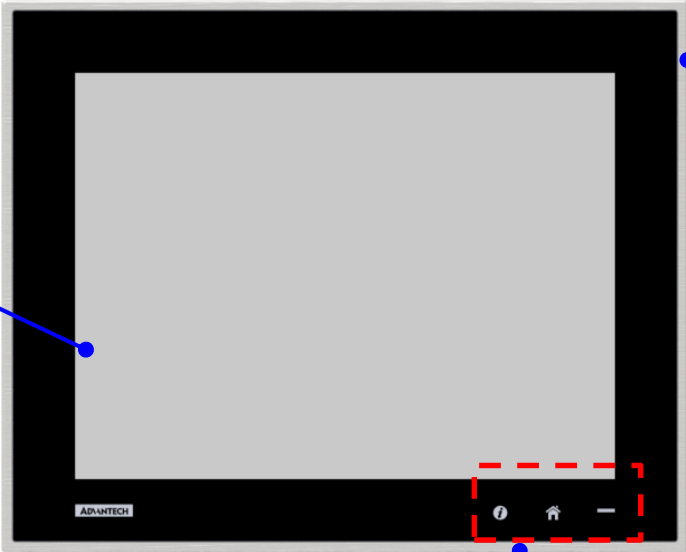
Narrow edge Front Bezel with Hairline-surface treatment 304L stainless steel front bezel

Easier to clean instead of traditional screws

Touch On / OFF Features

With configurable iKey, users can turn off touch easily to avoid mistake during daily wash

Stainless Steel Industrial Monitor – FPM-800S (Panel Mount Solution)

304 Stainless Steel front bezel

Anti-rust coated rear cover (SPCC)

- ✓ Easy Cleaning
- ✓ Sanitization
- ✓ Glove applications (Res. Touch)
- ✓ Wide Operation Temp. (-20~60°C)
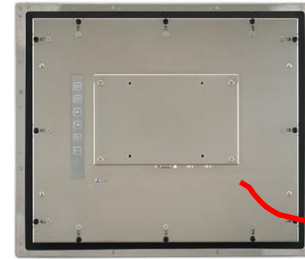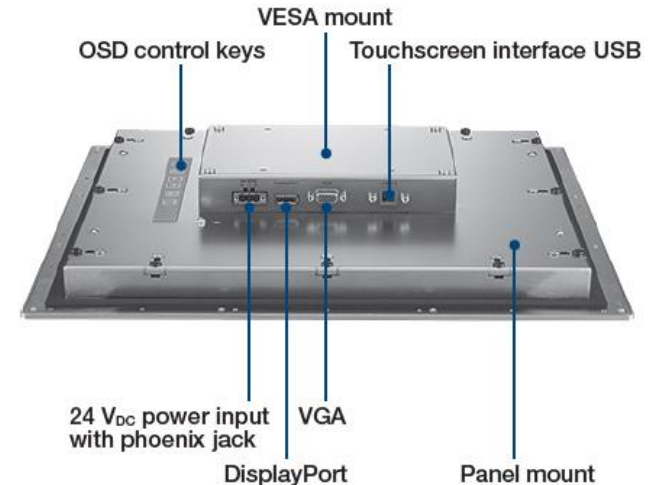
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FPM-800S Product Specifications

Front Panel IP66

Product		FPM-815S	FPM-817S
Display	Size	15"	17"
	Resolution	1024 x 768	1280 x 1024
	Aspect ratio	4:3	5:4
	Luminance	500 nits	350 nits
	Number of colors	16.7M	16.7M
	Backlight life	70,000 hrs	50,000 hrs
Touch	Surface Treatment	Anti-glare	Anti-glare
	Touch Technology	Resistive	Resistive
I/O ports	Power input	DC 24V	DC 24V
	Video interfaces	VGA/DP	VGA/DP
	Touch Connection	USB	USB
Mounting	Default	VESA/Panel	VESA/Panel
	Optional	Wall/Stand (with FPM-1000T-SMKE)	Wall/Stand (with FPM-1000T-SMKE)
Ingress Protection		Front panel IP66	Front panel IP66
Operation Temperature		-20~60℃	-20~60℃
Warranty		2 years	2 years

OSD control keys VESA mount Touchscreen interface USB

24 V_{DC} power input with phoenix jack DisplayPort VGA Panel mount

SPC-200 Introduction

All-around Die-casting IP66 with M12 connectors

Encapsulated HMI (SPC-200)

Light & Easy to Mount	Customized I/O	Powerful Platform
• All-Around IP66 Protection • VESA 75/100 supported • Slim & Compact Design	• Shock protection M12 cables • Customizable I/O for both TYPE & QTY	• Intel 6th Gen. Skylake-U i3/i5/i7 embedded CPU • Up to 16GB RAM • Intel LAN Chipset

SPC-221

iF

NOVA RS 5003

Slim & Compact that can fit it anywhere with All-around protection

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SPC-200 Introduction

Mounting:
VESA mount

Storage:
1 x 2.5"HDD

I/O Interface:
1 x RS-232
1 x USB 2.0 Ports
2 x GbE LAN

Operating Temperature
0~55℃

Certification
EMI: CE, FCC Class A
Safety: UL, BSMI, CCC

- Wide screen 21.5" HD TFT LED LCD
- 6th Gen. Skylake Core i3/i5/i7
- **All around IP66 with waterproof M12 connector**
- PCT Multi-touch screen

iKy

iF product design award 2013

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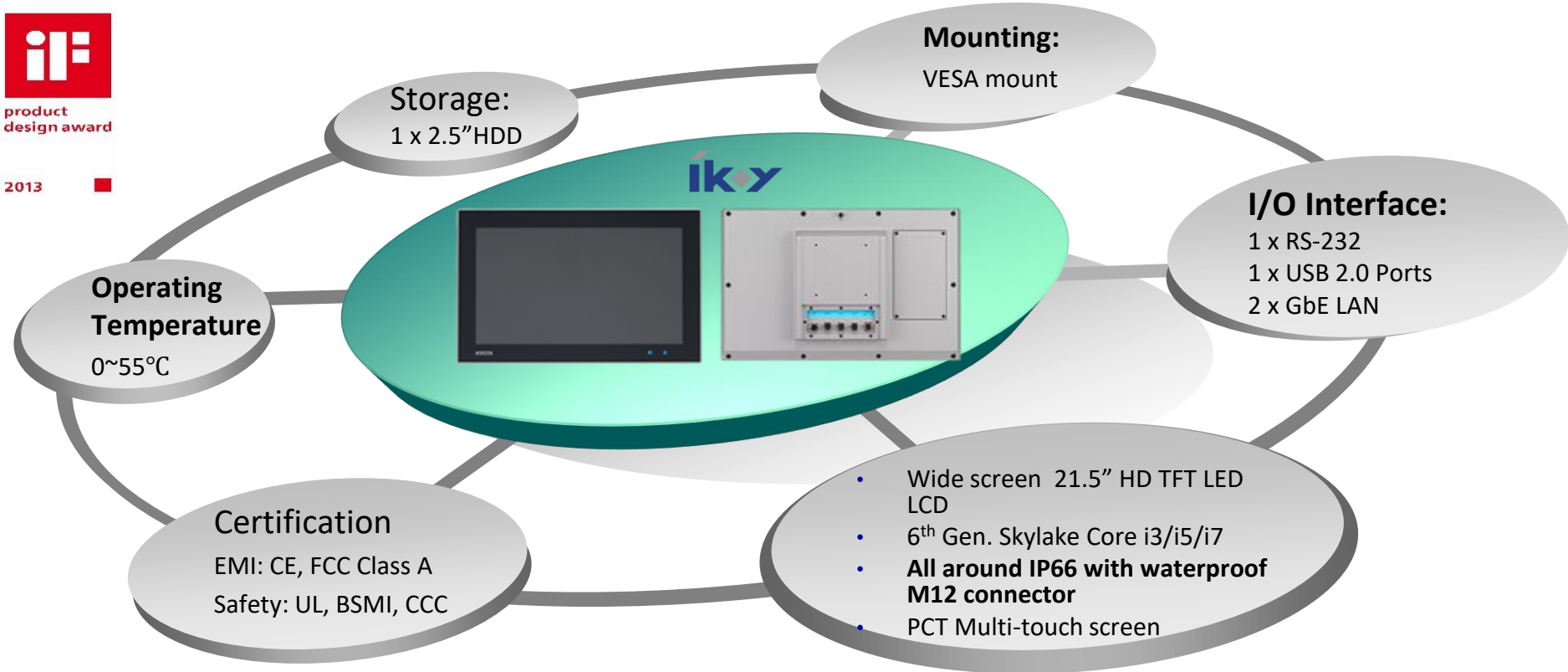
Stationary & Standalone HMI Naming Rule

$$\text{SPC-}X_1X_2X_3\text{-}Y_1Y_2Y_3Y_4E$$

- **X_1: Product Series**
    - **2: General SPC (old SPC-1881/2140)**
    - **5: Stainless Steel HMI (align w/ IPPC-5000)**
    - **8: Innovative HMI**
- **$X_2 X_3$: LCD panel size**
    - **15: 15" (4:3)**
    - **16: 15.6" (16:9)**
    - **18: 18.5"**
    - **21: 21.5"**
    - **24: 23.8"**

- **$Y_1 Y_2$: CPU**
    - **ATOM**
      E1=E39 series(Apollo Lake)
      E2, E3….=Exx series
      (Predecessor of Apollo Lake, Atom D or N series follow same rules
    - **Core i**
      Gen. # + Intel® Core™ i3 (63)
      Gen. # + Intel® Core™ i7 (67)
- **Y_3 : Memory Size**
    - **1/2/3/4/5: 2GB/4GB/8GB/16GB**
- **Y_4 : Version**
    - **A~Z**
- **E: RoHS**

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