

SPC-221 21" all-around IP65 Core i Panel PC



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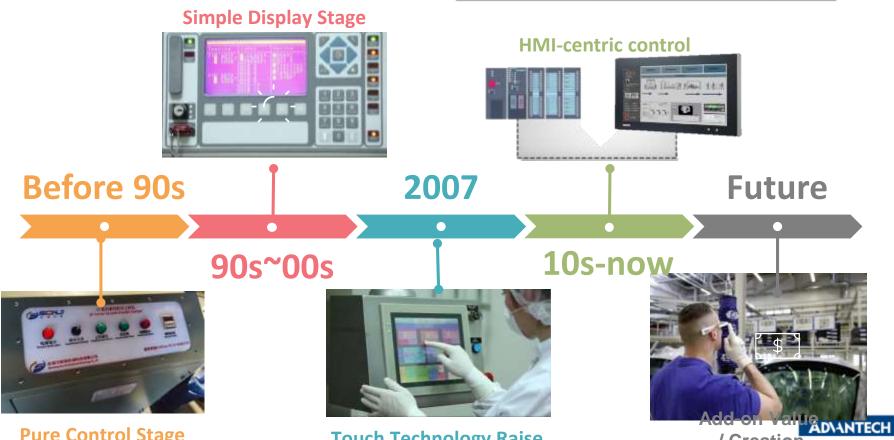
Europe Senior Product Sales Manager

What is Industrial HMI?

Pure Control Stage

A human-machine interface (HMI) is the user interface that connects an operator to the controller for an industrial system.

Creation



Touch Technology Raise

What is Domain HMI?

























- "Domain HMI" is a relative term to "Traditional HMI"
- Domain means limitation, with entering threshold
- Start From features to Domain



HMI Evolution in terms of mounting



Traditional Panel Mount HMI:

- Chamber cut-out fixed due to HMI limitation
- Lack of flexibility for ID and aesthetic action

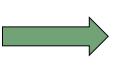
Out of the Cabinet HMI:

- Easily for SI to integrate in the machines
 - · Easily settle in the process line

Have You Heard Complaint About

- Dust on front bezel
- Limit space to install keyboard & mouse
- Single touch is not enough
- Need bigger display to show more information
- Direct mount on arm







All around IP protection solution

IP65 all around IP66 in front

SPC-1840WP SPC-2140WP





Market: General automation Success in Automotive

IP65 all around IP66 in front

SPC-1881WP SPC-221WP



Haswell

Market: General automation Success in machine for packaging



Market: F&B, Pharma

Machine builder: Ergonomy is becoming more and more important, this means panel must be adjustable by the operator there is a clear transition

Potential: constant monthly ordering

Process Automation: Ergonomy is becoming more and more important, this means panel must be adjustable by the operator there is a clear transition connections must be secured by any accidental disconnection.

Potential: Big order based on projects



Now You Won't hear Complaint About

Have You Heard Complaint About

- Dust on front bezel
- . Limit space to install keyboard & mouse
- · Single touch is not enough
- Need bigger display to show more information
- Direct mount on arm







VESA mount

True Flat screen

Support 10 fingers mult-touch Screen





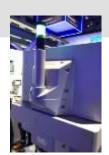


Benefit of Domain HMI

Existing Sector (Factory Automation)

- New Field :
 - Out-of-Cabinet Solutions
- Ruggedized :
 - Stainless Steel
 - Special Parts : Power / Touch
- Device Integration :
 - Tri-color LED, Barcode Scanner, NFC Card Reader



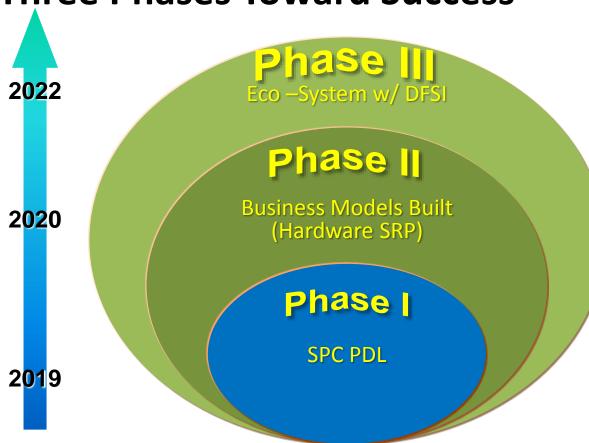


New Opportunity in New Sector

- Certification / Spec threshold
 - Oil & Gas
 - Railway / Boat
 - Power Station
 - Vehicle
- Domain Know-How w/ SI, Selected Sales, BDM
 - High customization possibility
 - New technology adopted (DTOS / PAPS /)



Three Phases Toward Success



DFSI Eco-System

- DFSI: knowledge and channel system provided
- Become a player in selected industry (Eco-System)

Business Models Built

- Know-how guy in regionally
- Hardware SRP Provider (target SI)

Domain HMI STANDARD

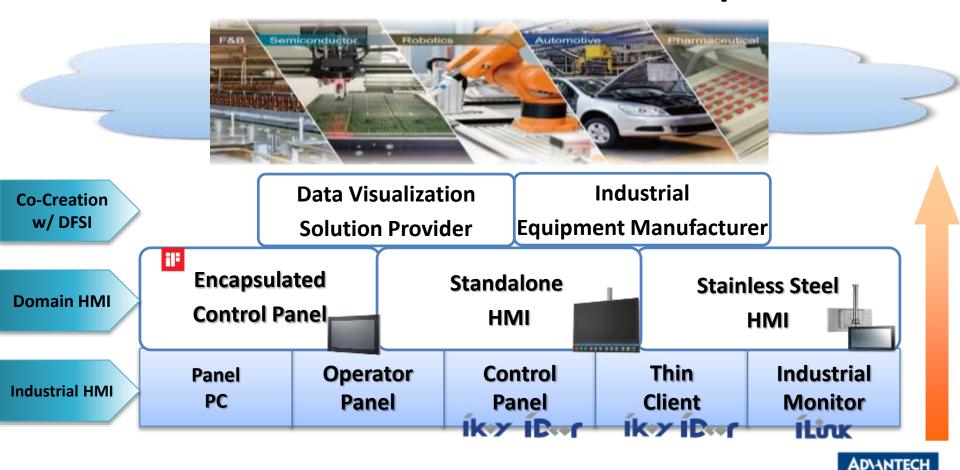
SPC-800 : Standalone HMI

SPC-500: Stainless Steel HMI

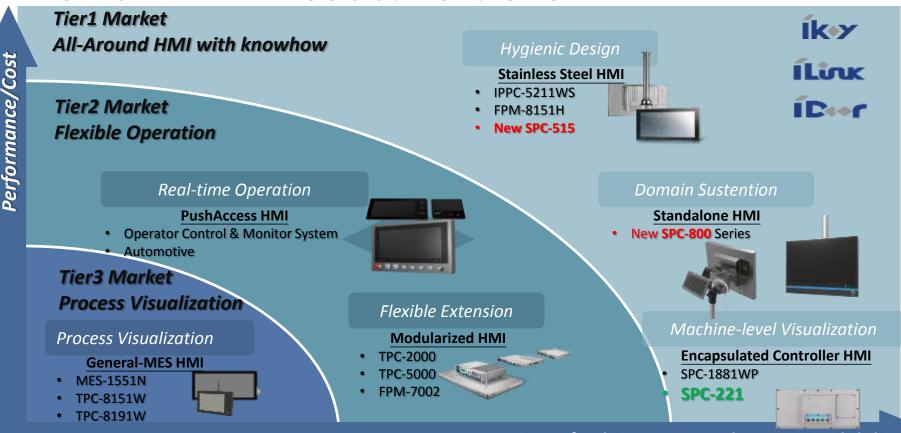
SPC-200: Encapsulated Contr

ADVANTECH

Domain HMI Product Portfolio & Development Path



Domain HMI Product Portfolio



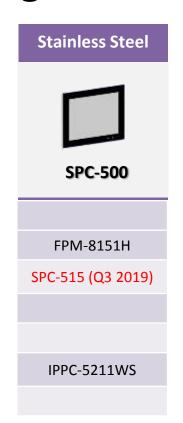
Out-of-cabinet HMI Application Availability



Domain HMI Offering - 2019



SPC-218
SPC-221







Stationary & Standalone HMI Naming Rule

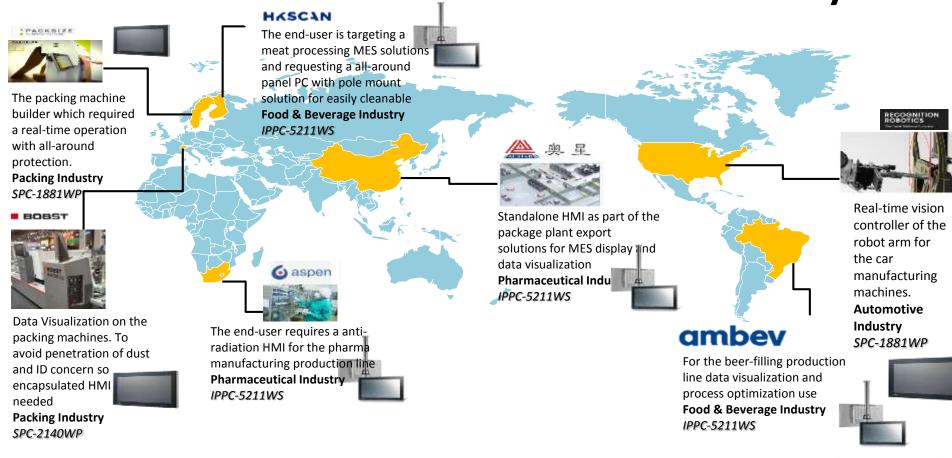
SPC-X₁X₂X₃-Y₁Y₂Y₃Y₄E

- X₁: Product Series
 - 2: General SPC (old SPC-1881/2140)
 - 5: Stainless Steel HMI (align w/ IPPC-5000)
 - 8: Standalone HMI
- X₂ X₃: LCD panel size
 - · 15: 15" (4:3)
 - · 16: 15.6" (16:9)
 - · 18: 18.5"
 - · 21: 21.5"
 - · 24: 23.8"

- Y₁ Y₂ : 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)
- Y₃: Memory Size
 - 1/2/3/4/5: 2GB/4GB/8GB/16GB
- Y₄: Version
 - A~Z
- E: RoHS

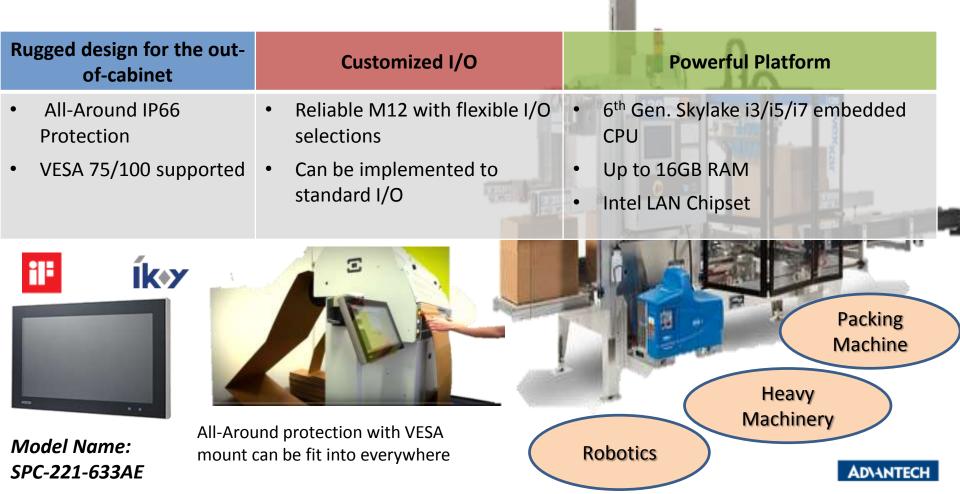


Successful Out-of-Cabinet HMI Case Globally



ADVANTECH

Encapsulated Control Panel (SPC-200)

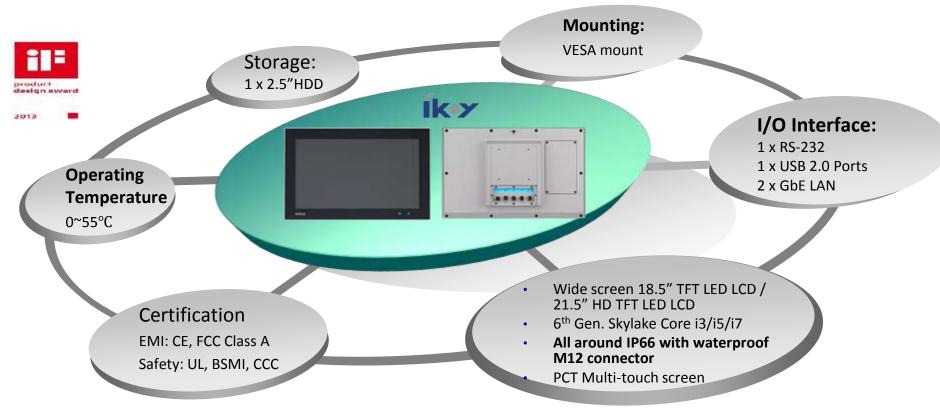


SPC-200 Introduction



All-around Die-casting IP66 with M12 connectors

SPC-200 Introduction





SPC-200 I/O Customization (project based)





- Customization of changing M12 type connectors to general type connectors
- Customization of External I/O ports

	Standard	Max. Support
Ethernet	2	2
VGA output	0	1
HDMI output	0	1
USB	1	4
RS-232	1	3
RS232/422 /485	0	1

PS: Total number of I/O ports is limited by I/O area

SPC-1881WP-433AE SPC-18/2140WP-T3AE

- 18.5" /21.5" HD 300nits, PCAP TCH
- 4TH Gen. Core i3/i5/i7, T56N
- All around IP66 w/ M12 connectors
- Opt. regular I/O / M12

SPC-221

- 21.5" HD 300nits, PCAP TCH
- 6th Gen. Core i3/i5/i7
- All around IP66 design
- Opt. regular I/O / M12

FPM-8151H-R3BE • 15" industrial monitor • Stainless Steel Front Bezel • C1D2 Certified • Resistive T/S with sealing

IPPC-5211WS-J3AE 21.5" FHD 300nits, Celeron J1900,

- PCAP TCH
- IP69K Rated Protection
- Optional Full Stainless Housing

SPC-515

- 15" 4:3 300nits, 6TH Gen i3 / i7 / Celeron , PCAP TCH
- All-Around 304L Stainless Steel Housing
- IP69k Rated Protection w/

• IP69K Rated Protection W/
VESA 2019 Q3

Released 2019 Q1 2019

Go Together,
We Go Far and Grow Big

