

# ADVANTECH

*Enabling an Intelligent Planet*

## Ultra Slim Bezel HMI Series

- All-in-One HM
- Modular HMI
- Industrial Monitor



intel  
partner Titanium  
IoT  
Solutions

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ADVANTECH

Enabling an Intelligent Planet


Est.

1983

Headquarters: Taipei, Taiwan

INDUSTRIES SERVED

Industry 4.0, Industrial IoT,  
 Embedded Computing,  
 Medical, Retail, Logistics



\$10.61B

MARKET CAP (USD)

(Feb., 2024)



HONORS & AWARDS

- No.5 in Best Taiwan Global Brands
- No.17 in Top 50 Global Automation Vendors
- No.9 in Top 100 Industrial IoT Companies
- Red Dot Product Design Award
- iF Product Design Award







WORLD'S LARGEST IPC COMPANY

Advantech IPC WW Market Share

41%

Advantech

Other IPC Companies

Source: OMDIA – Market Share estimates for Industrial PCs: World, 2022 Edition

\$2.07B

2023 REVENUE

(USD)

KEY ECO-SYSTEM PARTNERS

intel

Microsoft

NVIDIA

Micron

AMD

Canonical Ubuntu

TEXAS INSTRUMENTS

arm

NXP

Qualcomm

MEDIATEK

and more...

QUALITY SYSTEMS IN PLACE

- ISO9001
- ISO14001
- ISO13485
- ISO17025
- ISO27001
- ISO45001
- TL9000
- ISO50001
- RoHS
- WEEE
- SONY GP
- REACH

1.8 MILLION+ sq. ft.

MANUFACTURING PLANTS

Linkou, Taiwan



- 9 SMT lines, 16 system lines
- Engineering sample services
- Complex product lines
- Flexible & quick production

Kunshan, China



- 12 SMT lines, 13 system lines, 6 chassis lines
- Chassis design & production
- Mature product lines
- Cost-effective production

Nogata, Japan



- 4 SMT lines, 1 system line
- Japan design center, CTOS service, logistics center, repair center

WORLDWIDE OFFICES



Manufacturing

3

On-site service

4

Design centers

11

CTOS centers

16

Repair centers

17

Logistics centers

20

More than 90 offices globally!

8800+ EMPLOYEES



2



Slim Bezel

# Slimmer · Simpler · Smarter

## Advantech HMI Series Supports Ultra Narrow Bezels



Seamless integration  
into any environment



Variety of sizes  
for every need



Better user visual  
experience



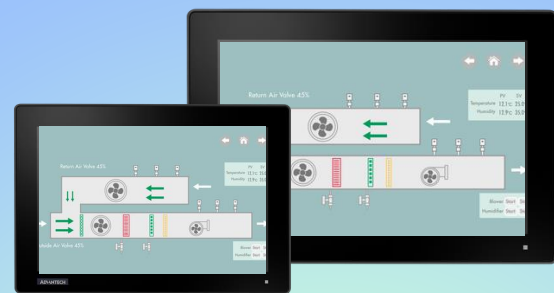
Multi-touch panel  
for convenience  
control

**50%**  
Bezel Reduce



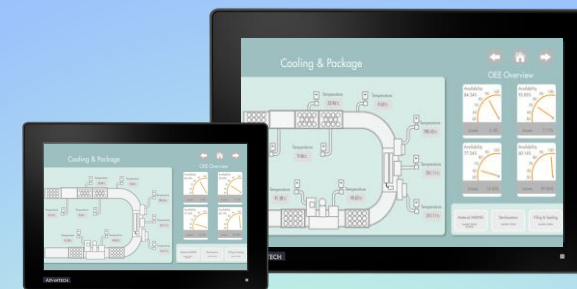
Slim Bezel

# Advantech HMI Panel PC Series



**All-in-One HMI**

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partner Titanium  
IoT  
Solutions



**Modular HMI**

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partner Titanium  
IoT  
Solutions



**Industrial  
Touch Monitor**

Slim Bezel

# All-in-One HMI Panel PC

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partner Titanium  
IoT  
Solutions



## PPC-300S RPL Series

12"/15"/17" P-CAP/ resistive touch panel  
Intel® Core™ processors (13th Gen)

- SODIMM DDR5 x1, Max. 32GB
- COM x 2, USB x 4, Line-out x 1, LAN x 2
- TSN & TPM & 5G support
- iDoor slot x 1, PCI/PCIe expansion x 1 (optional)



[View More](#)

## PPC-300 ADL-N Series

15.6"/18.5"/21.5" P-CAP touch panel  
Intel® Processor N97

- SODIMM DDR5 x1, Max. 16GB
- COM x 2, USB x 4, Line-out x 1, LAN x 2
- TSN & TPM & 5G support
- iDoor slot x 1, PCI/PCIe x1 expansion (optional)
- Wide operating temperature range -20 ~ 60°C (by request)



[View More](#)

## TPC-310W EHL

10" P-CAP touch panel  
Intel Atom® X6425E processor  
Intel® Celeron® processor J6412

- SODIMM DDR4 x1, Max. 16GB
- COM x 2, USB x 4, Line-out x 1, LAN x 2
- TPM support
- PCIe expansion (optional)
- Wide operating temperature range -20 ~ 60°C



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Slim Bezel

# Modular HMI Panel PC

Advantech Modular HMI enables the computing box module to be easily combined with display modules of various sizes, allowing for flexible customization based on specific applications.

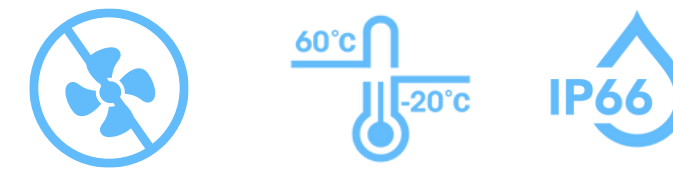
1

## Choose Panel Modules



2

## Choose HMI Modules



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# Modular HMI Panel PC

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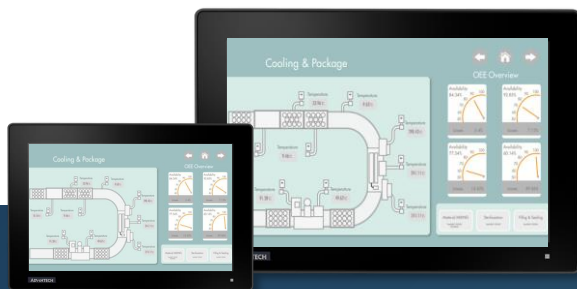
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## FPM-Sxx Series

15.6"/18.5"/21.5" Panel Sizes

- Built-in Clamp
- Supports ENERGY STAR8.0
- IP66 water-proof front panel

Phase in Dec.2024



## TPC-B520

13th Gen  
Intel® Core™ Processors

- SODIMM DDR5 x1, Max. 32GB
- M.2 expansions for iDoor, NVMe SSD, Wi-Fi 6, and 5G LTE
- Triple display capability with panel modules, display port and Type-C (DP)
- Windows 10/11 and Linux



## TPC-B520L

Intel® Core™ i3-N305 Processor

- SODIMM DDR5 x1, Max. 16GB
- M.2 expansions for iDoor, SATA SSD, Wi-Fi 6, and 5G LTE
- Triple display capability with panel modules, display port and Type-C (DP)
- Windows 10/11 and Linux



## TPC-B300

Intel Atom® X6425E Processor  
Intel® Celeron® Processor J6412

- SODIMM DDR4 x1, Max. 32GB
- M.2 expansions for NVMe SSD and Wi-Fi
- 1 x mPCIe for iDoor expansion





**Slim Bezel**

# Industrial Touch Monitor



## FPM-710SW

**10.1" WUXGA TFT LED LCD with true-flat touch panel**

- IP66 water proof
- Slim design enables easy installation
- Supports various mount options: panel, desktop, and VESA
- Lockable I/O connectors
- Supports one cable to connect USB and Type-C

**Phase in Dec.2024**



# Applications



**Equipment  
Manufacturing**



**Semiconductor  
Production Lines**



**Automotive  
Factory**



**Warehouse  
Automation**



**Pharmaceutical**



**Transportation**



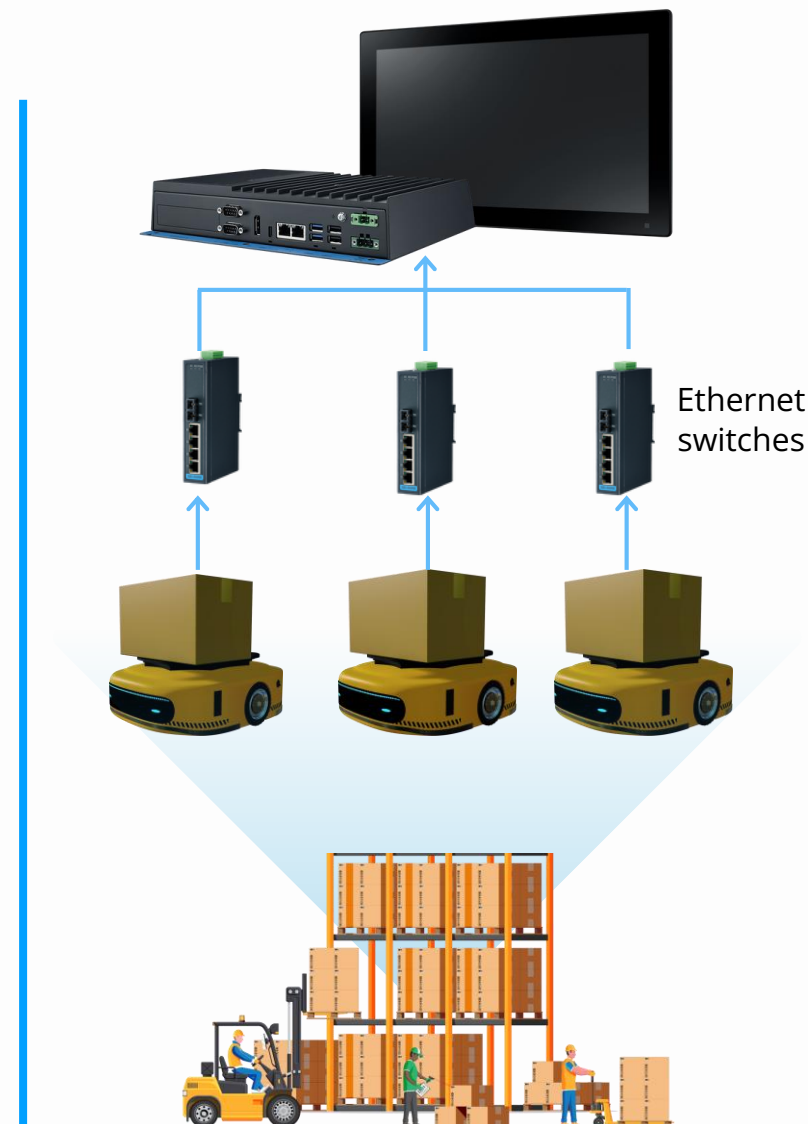
## Assisted Pick & Place Automation to Transform Efficiency

### Challenges

- Picking & placing required hours of manpower and human error could occur from time to time.
- The customer was looking for a high-performance HMI that can perform edge computing and is also able to run real-time data with AGV robots via the EtherCat network.

### Solution

- Advantech HMI panel PC was installed and used Cartesian transformations and control servomechanism motors over an EtherCat network with CODESYS power, all in real-time and connected to other PLC operations.
- The customer can choose their desired CPU, memory module, storage, and PCIe card for the best performance to suit their needs while keeping costs within budget.



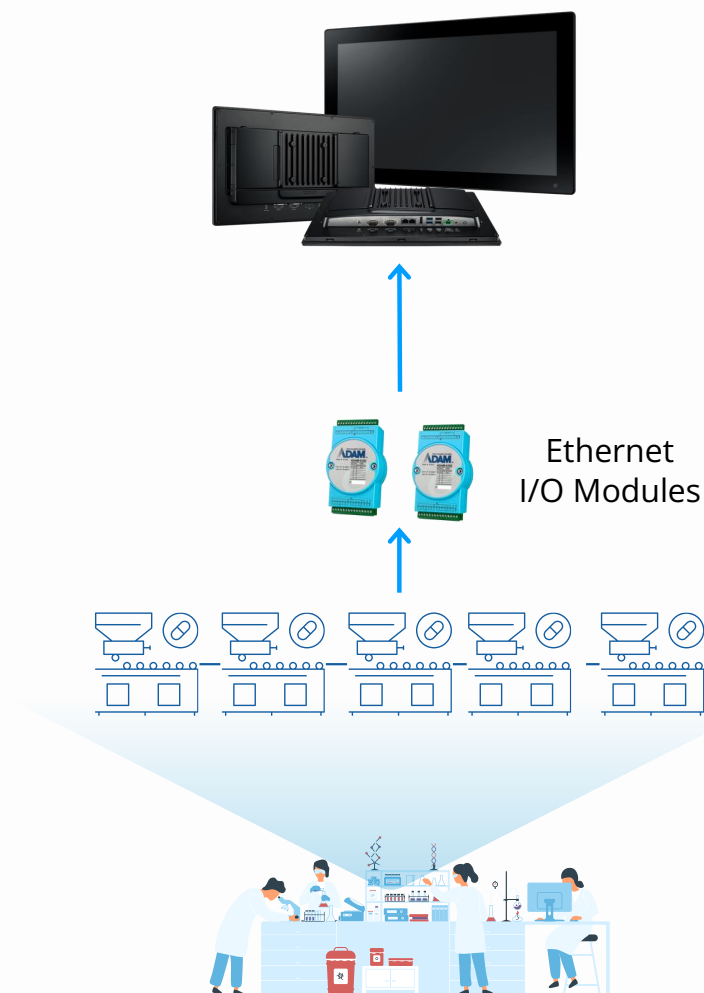
## Implementation of HMI in Pharmaceutical Packaging

### Challenges

- In pharmaceutical packaging facilities, HMI is essential for maintaining high standards of safety and cleanliness.
- HMI streamlines operations and enables precise control over machinery. Their user-friendly interfaces are easily sanitized and designed to resist harsh disinfectants.

### Solution

- HMIs are crucially integrated with industrial automation systems through gateways, facilitating seamless communication and control.
- This setup allows for real-time data analysis and swift operational adjustments, providing centralized control and monitoring, which are vital for maintaining high cleanliness and precision in pharmaceutical manufacturing.





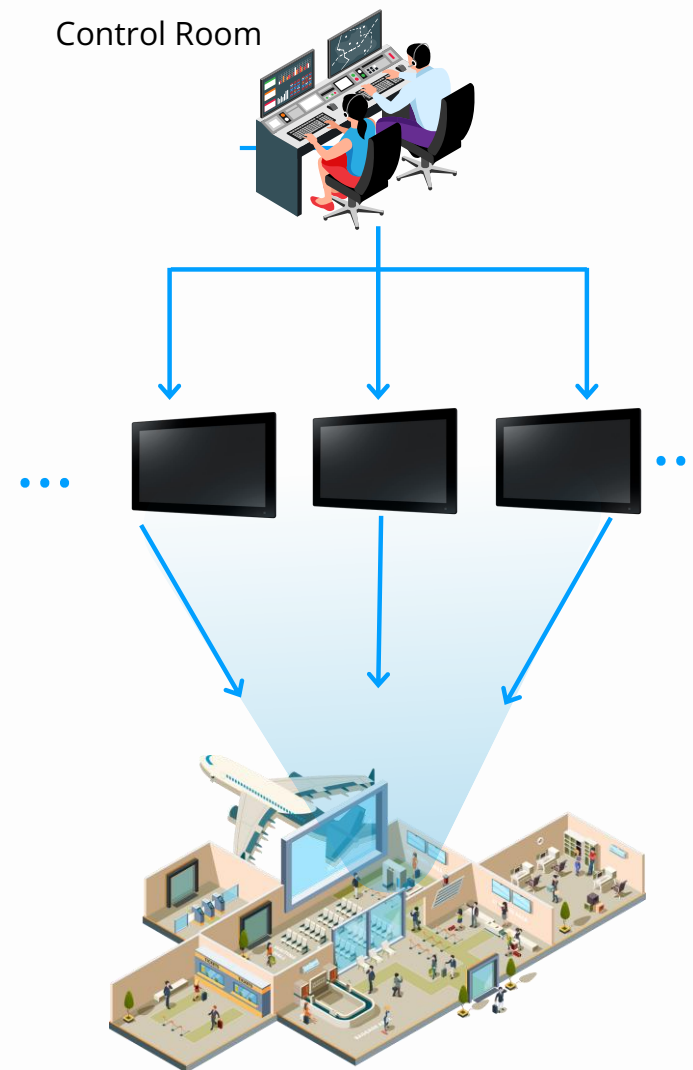
## Optimizing Airport Operations and Passenger Experience

### Challenges

Airports need to deliver real-time flight information across their vast spaces and maintain cleanliness in environments like restrooms. To address these challenges, airports require a network of HMI systems with various screen sizes and high-performance CPUs for 24/7 operation. These systems enhance the overall airport experience.

### Solution

- Advantech offers a wide range of HMI solutions with various screen sizes and CPU options, from basic to high-end computing power, to meet customer needs in diverse environments.
- Advantech's HMIs are built to industrial-grade standards, ensuring reliable and dependable product quality. This design guarantees long-term stable operation, eliminating concerns about system failures that could negatively impact customer experience.





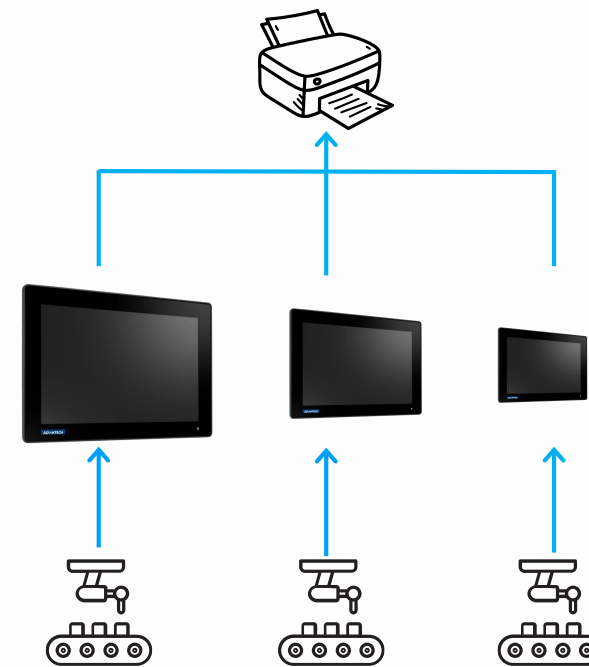
## Lithium Battery Company Explores Production Line Upgrades with HMI

### Challenges

- The company makes lithium-ion batteries and power management systems and is an advanced and leading domestic manufacturer.
- The business is expanding and looking for a flexible, modular design for their constantly expanding production lines.
- Seeking advanced, high-quality, and brand-recognizable HMI products.

### Solution

- The product-line machine with Advantech HMI for viewing production information and traceability.
- Advantech HMI offers multiple PCIe slots which allows the system to be expanded to allow diverse IO such as DI/DO to meet the requirements of different production lines.





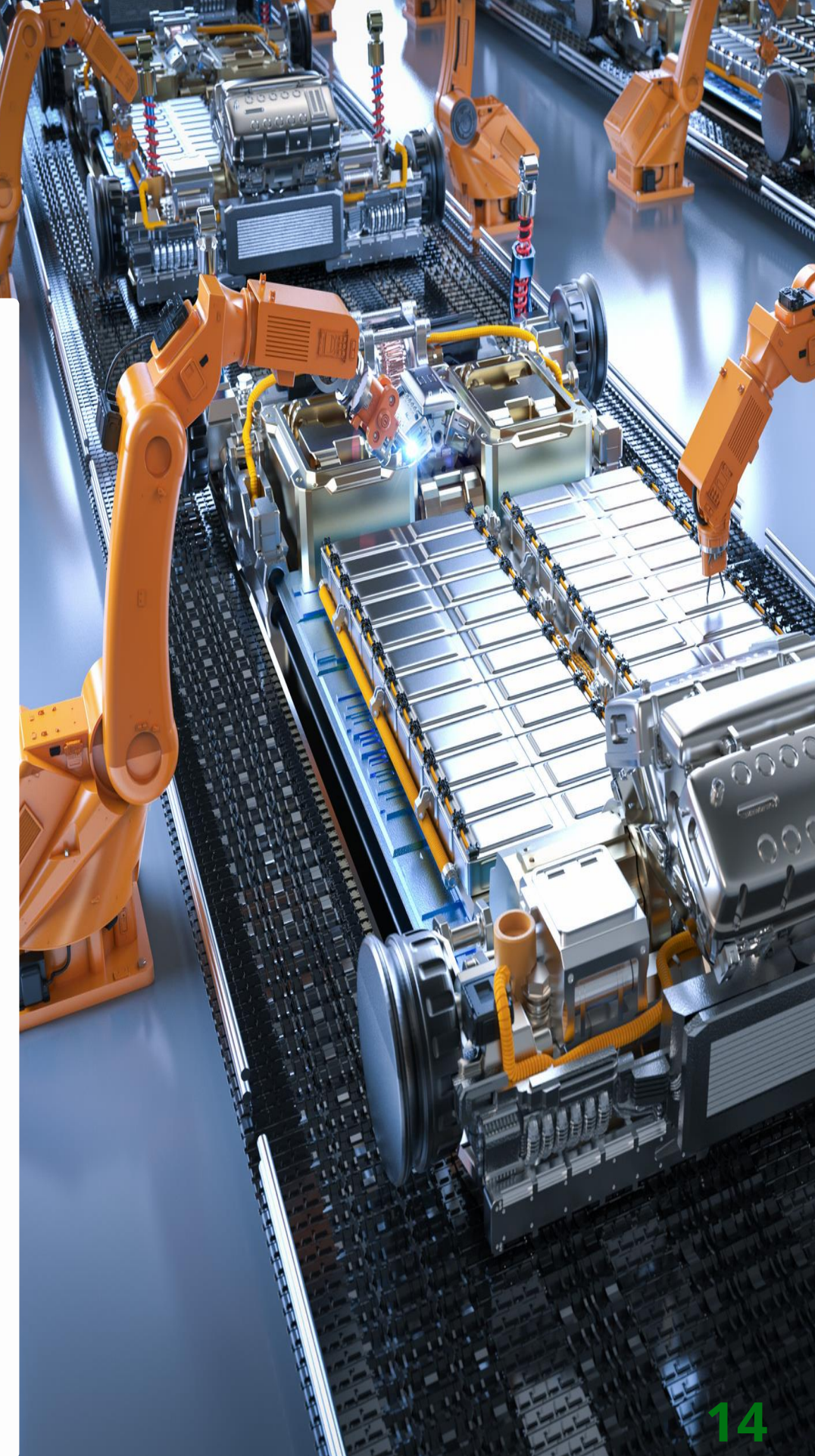
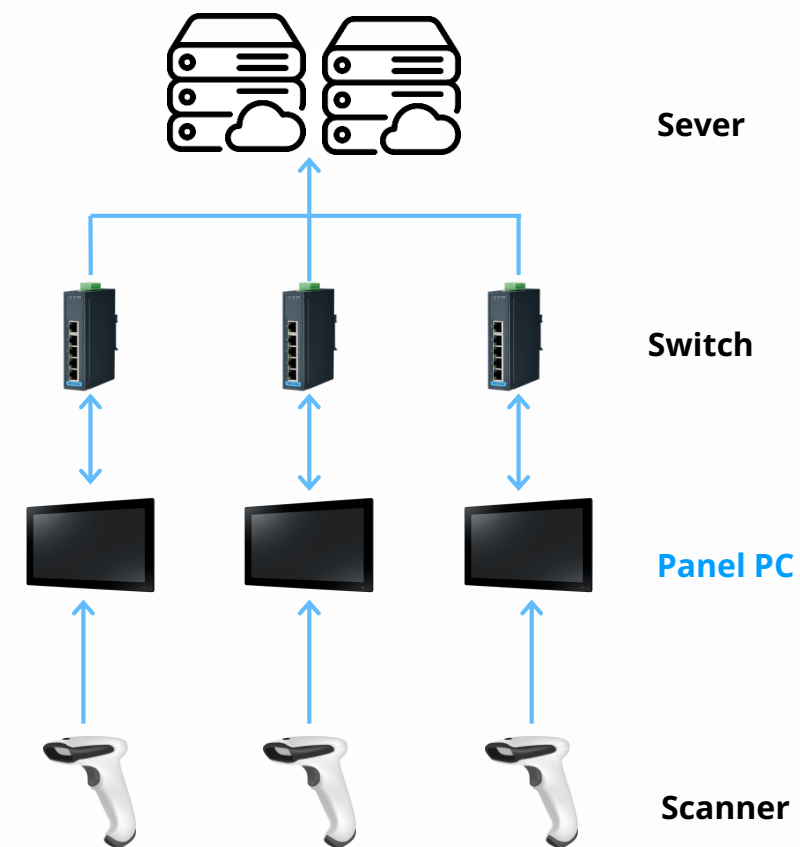
## The Role of HMI as a MES Workstation

### Challenges

- MES is a critical system for the automobile industry, where there is minimal tolerance for errors. As a result, ensuring machine stability at production stations is essential.
- The customer was looking for high stable and reliable HMI system that can be adapted to meet any production requirements.

### Solution

- Advantech HMI has a high degree of industrial design to reduce the impact of anti-interference on the automobile production line.
- Advantech HMI operated as an MES workstation, in which workers can directly implement actions such as reporting, dispatching, deploying work instructions, and scanning codes on the computer.





Worldwide Offices

Regional Service and Customization Centers

China	Kunshan 86-512-5777-5666	Taiwan	Taipei 886-2-7732-3399	Netherlands	Eindhoven 31-40-267-7000	Poland	Warsaw 00800-2426-8080	USA	Milpitas, CA 1-408-519-3800
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Asia Pacific

Taiwan

Toll Free	0800-777-111
Taipei	886-2-7732-3399
Taichung	886-4-2372-5058
Kaohsiung	886-7-392-3600

China

Toll Free	800-810-0345
Beijing	86-10-6298-4346
Shanghai	86-21-3632-1616
Shenzhen	86-755-8212-4222
Kunshan	86-512-5777-5666
Hong Kong	852-2720-5118

Asia Pacific

Japan

Toll Free Tokyo	0800-500-1055
Osaka Nagoya	81-3-6802-1021
Nogata	81-6-6267-1887
	81-052-291-4860
	81-949-22-2890

Korea

Toll Free	080-363-9494/5
Korea HQ (Seoul)	080-363-9494/5

Singapore

Singapore	65-6442-1000
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Malaysia

Kuala Lumpur	60-3-7725-4188
Penang	60-4-537-9188

Thailand

Bangkok	66-02-2488306-9
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Vietnam

Hanoi	84-24-3399-1155
Hochiminh	84-28-3836-5856

Indonesia

Jakarta	62-21-751-1939
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Australia

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Netherlan

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Amberg	49-9621-9732-100

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Paris	33-1-4119-4666
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Italy

Milan	39-02-9544-961
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London	44-0-208-317-1380

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Sweden

Stockholm	46-0-864-60-500
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St. Petersburg	7-812-332-57-27

Czech Republic

Ústí nad Orlicí	420-465-524-421
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Ireland

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Ottawa	1-800-346-3119
Chicago	1-513-742-8895
	1-800-866-6008

Boston  
Canada

Toronto	1-800-866-6008
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Itajuba	55-35-3623-5949

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Mexico City	1-800-467-2415
Guadalajara	52-33-3169-7670

Middle East and Africa

Israel

Kadima-Zoran	072-2410527
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www.advantech.com

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