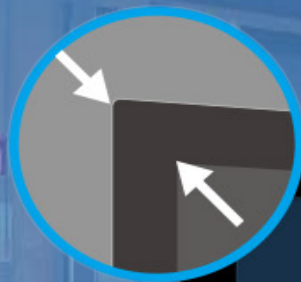**ADVANTECH**

Enabling an Intelligent Planet

Ultra Slim Bezel HMI Series

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

intel partner | Titanium IoT Solutions

12"-21" Panel Sizes

Computing Power

4:3 Ratio

16:9 Ratio

Table of content

ADVANTECH

![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 — **Interbrand**
- No.17 in Top 50 Global Automation Vendors — **CONTROL**
- No.9 in Top 100 Industrial IoT Companies — **IoT ONE**
- Red Dot Product Design Award — **reddot design award**
- iF Product Design Award — **iF**

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

50%
Bezel Reduce

Seemless integration into any environment

Variety of sizes for every need

Better user visual experience

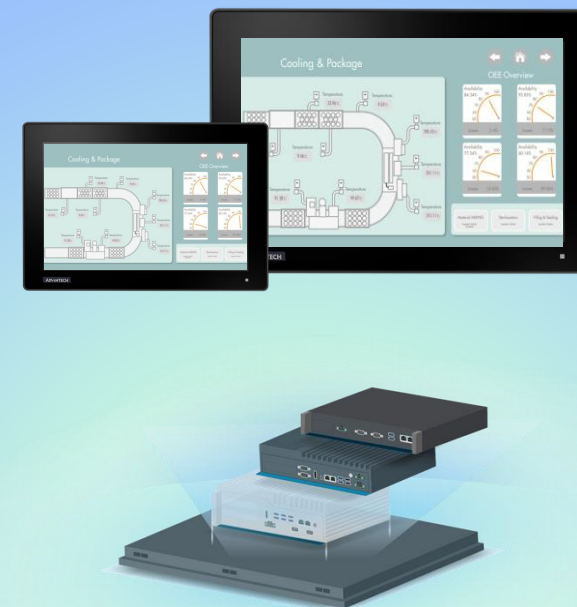**Multi-touch panel for convenience control**

3

ADVANTECH

Slim Bezel

Advantech HMI Panel PC Series

All-in-One HMI

Modular HMI

Industrial Touch Monitor

4

Slim Bezel

All-in-One
HMI Panel PC

intel 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

View More

5

ADVANTECH

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.
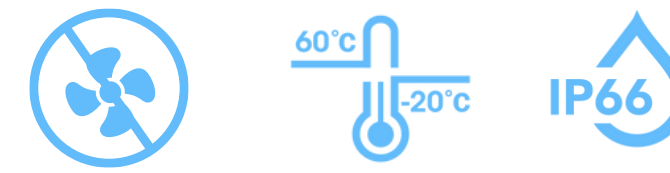
1 Choose Panel Modules

2 Choose HMI Modules

60°C -20°C IP66

60°C -20°C IP66

intel. partner Titanium IoT Solutions

ADVANTECH

Slim Bezel

Modular HMI Panel PC

intel. partner Titanium IoT Solutions
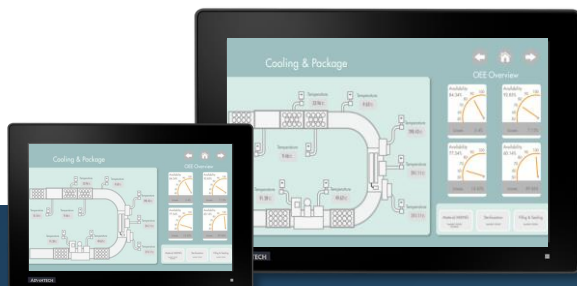
FPM-Sxx Series

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

7

Industrial Touch Monitor

Slim Bezel

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

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AD\ANTECH

Applications

Equipment Manufacturing

Semiconductor Production Lines

Automotive Factory

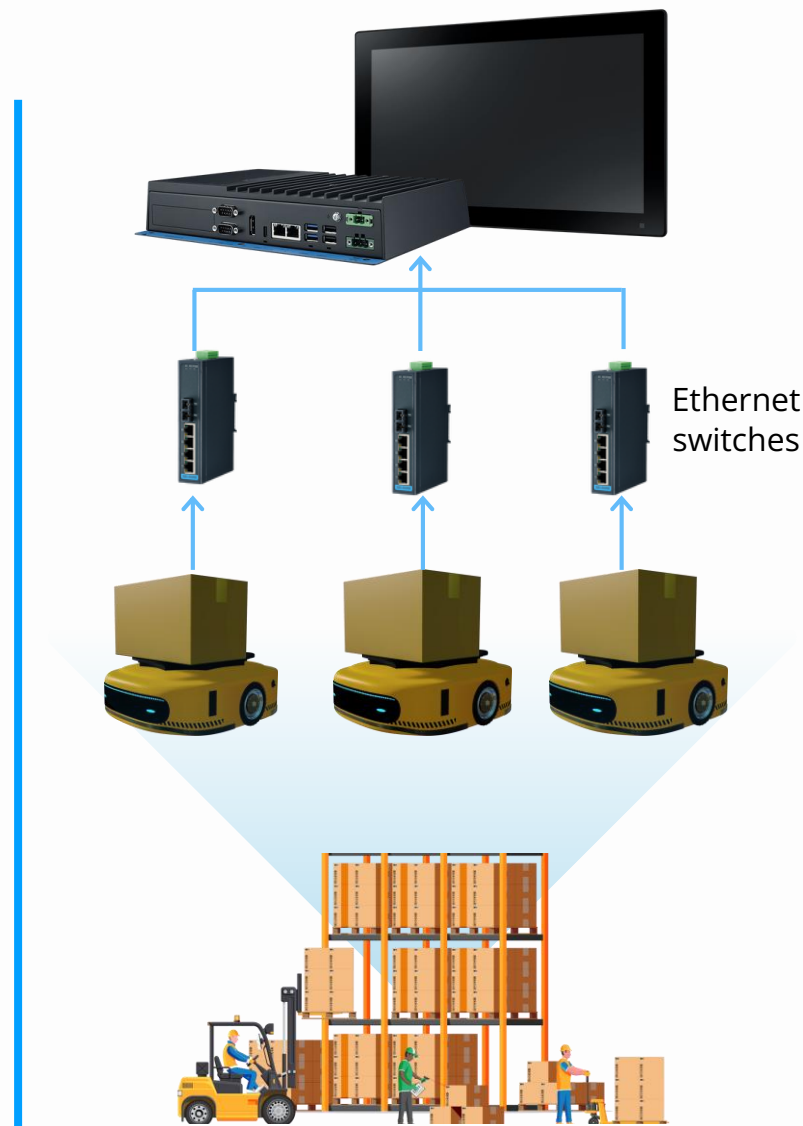**Warehouse Automation**

Pharmecutical

Transportation

9

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.
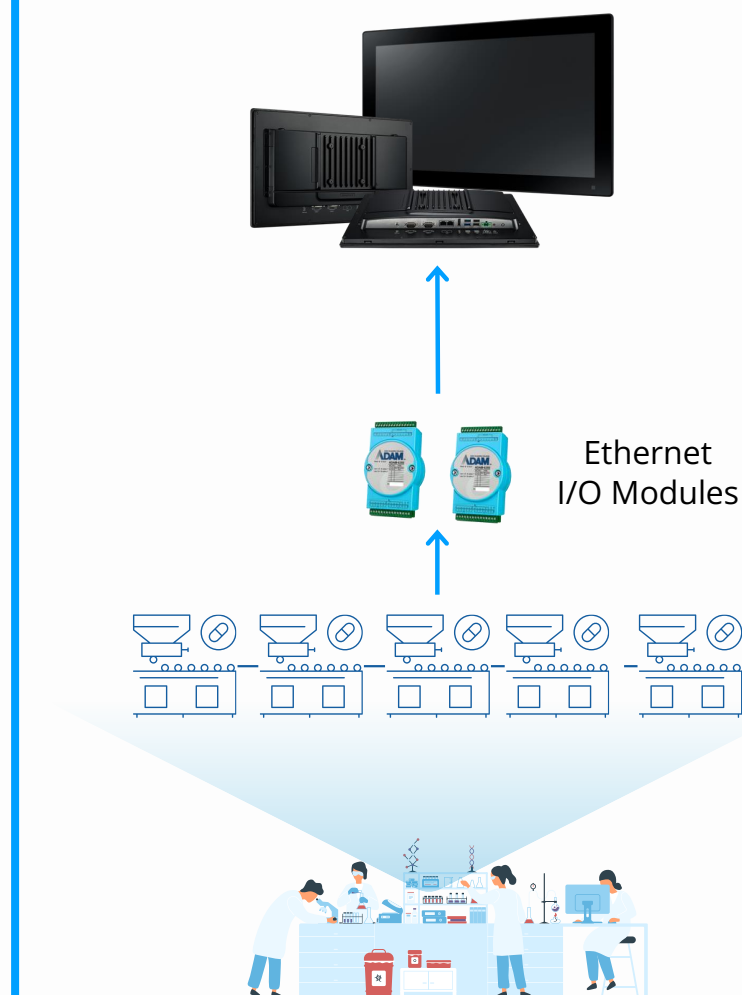
Ethernet switches

10

ADVANTECH

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.

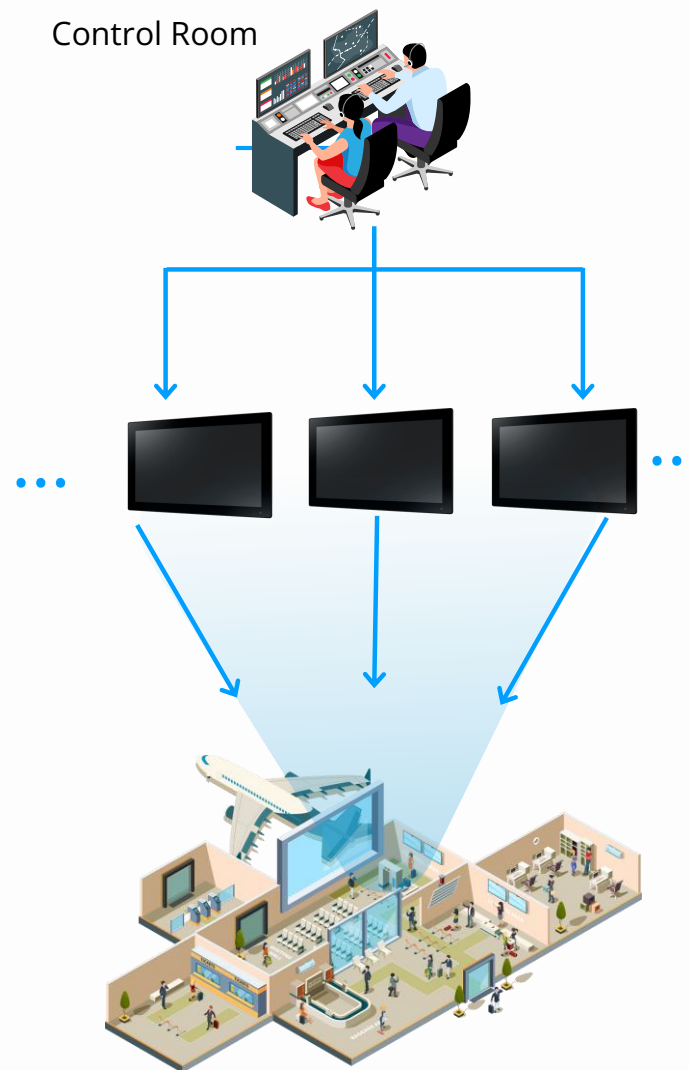Ethernet I/O Modules

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ADVANTECH

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.
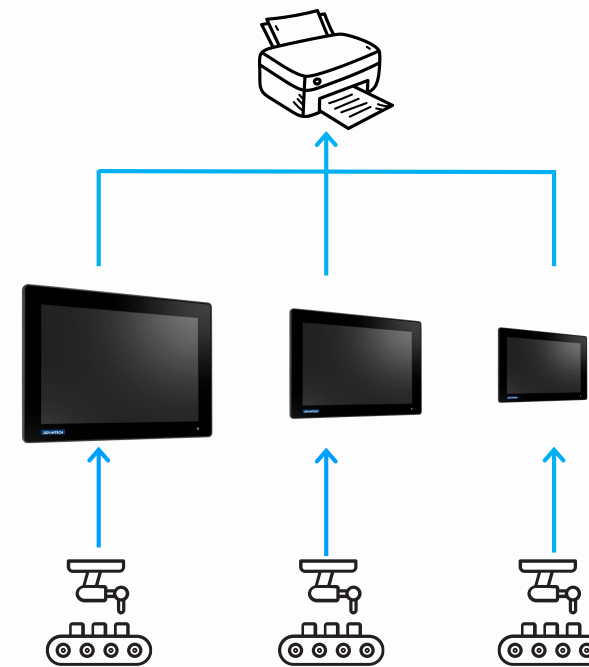
Control Room

12

ADVANTECH

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.
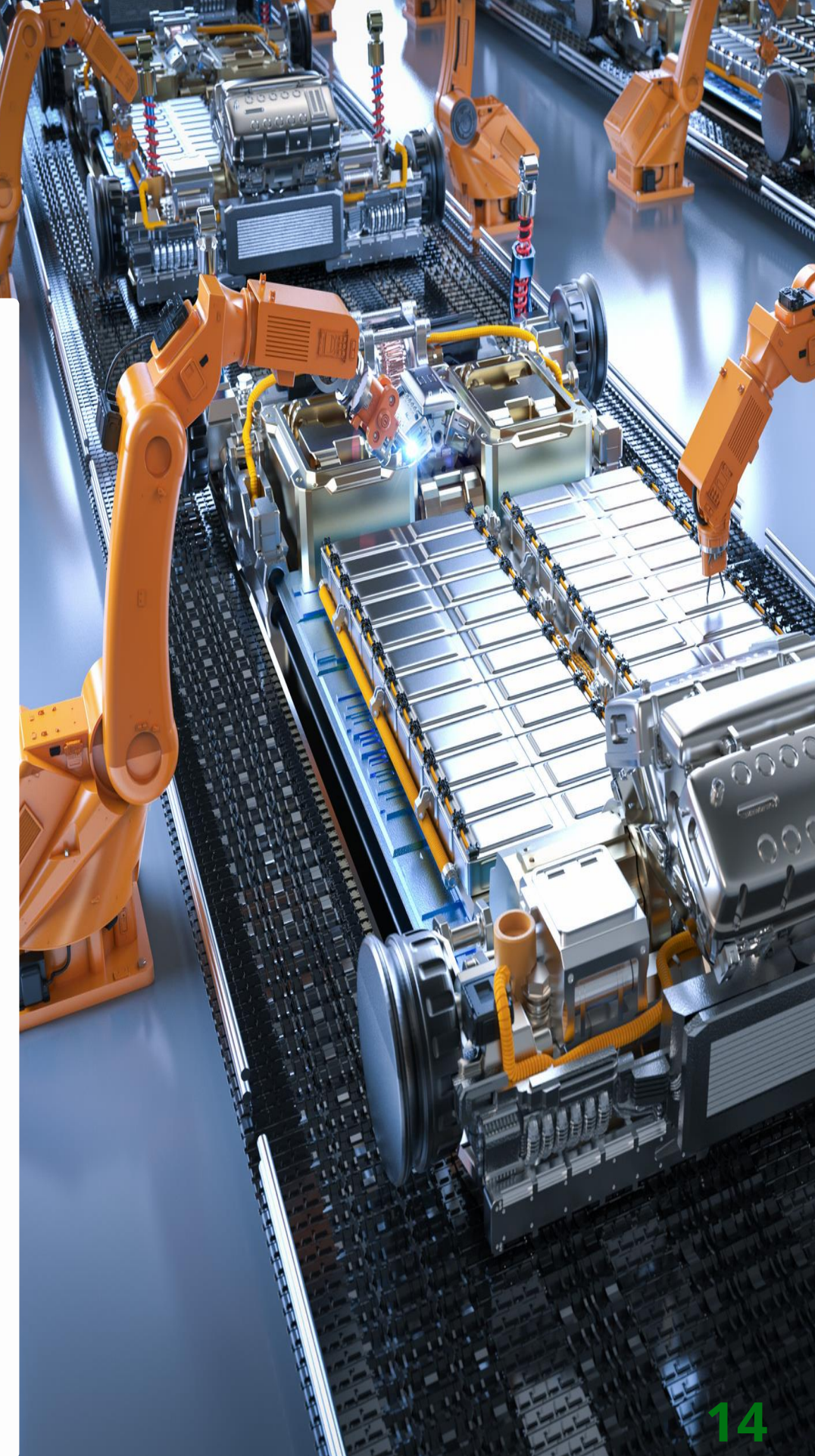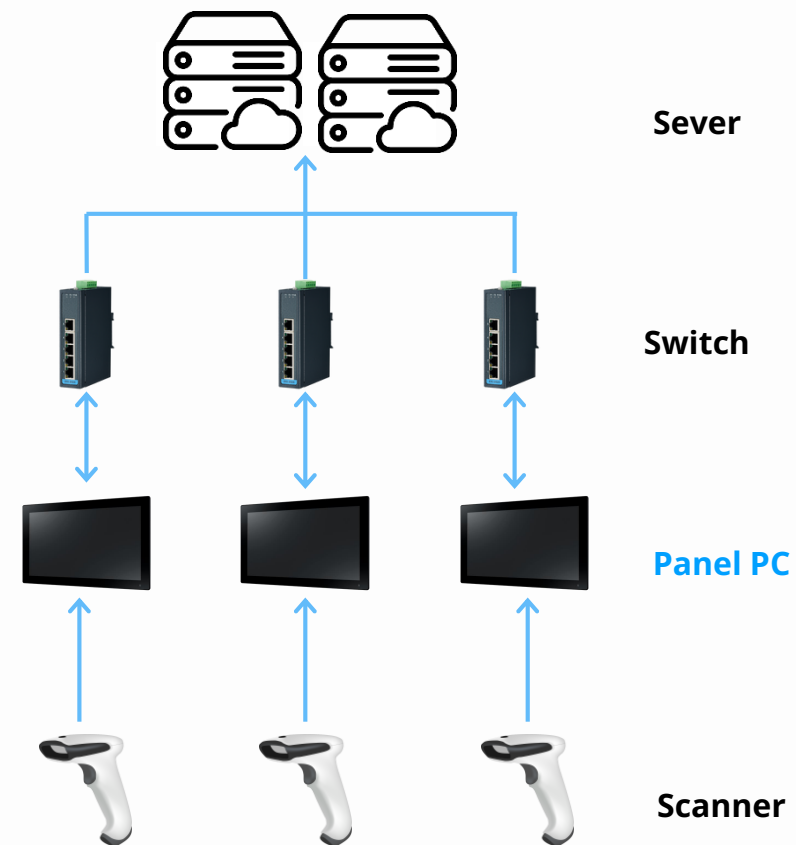
13

ADVANTECH

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.

Sever

Switch

Panel PC

Scanner

14

ADVANTECH

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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Toll Free	0800-777-111
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Shanghai	86-21-3632-1616
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Kunshan	86-512-5777-5666
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Nogata	81-6-6267-1887
	81-052-291-4860
	81-949-22-2890

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Penang	60-4-537-9188

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Hochiminh	84-28-3836-5856

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Breda	31-76-523-3100

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Düsseldorf	49-2103-97-855-0
Amberg	49-9621-9732-100

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Paris	33-1-4119-4666

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Sweden
Stockholm	46-0-864-60-500

Poland
Warsaw	48-22-31-51-100

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St. Petersburg	7-812-332-57-27

Czech Republic
Ústí nad Orlicí	420-465-524-421

Ireland
Galway	353-91-792444

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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

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Kadima-Zoran	072-2410527

Turkey
Istanbul	90-212-222-0422
Bursa	90-850-840-3995

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