

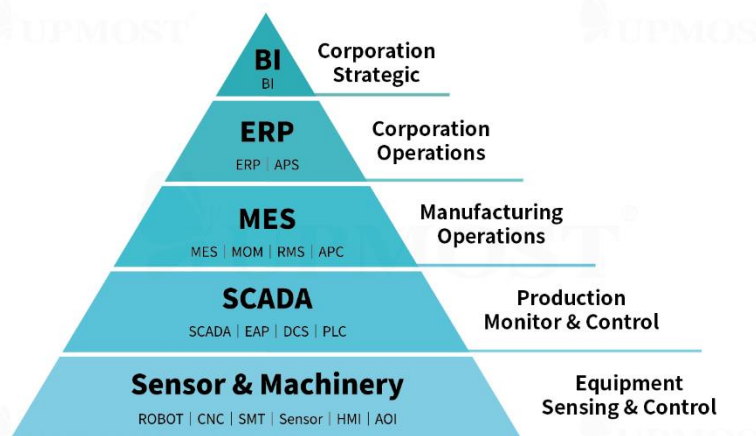


# Artificial Intelligence Innovative Services

Comprehensive Transformation | One-stop Shopping Solution

UPMOST actively promotes transformation by creating "AI Smart Innovation Services" solutions, offering professional management consulting services to help clients achieve "digital transformation" and embrace the era of smart innovation.

AI innovation services start from the client's needs. By systematically analyzing the root causes of problems, we propose effective and actionable solutions, while also providing professional services like One-Stop Shopping and Experience Sharing. These services help improve efficiency and solve problems and pain points.

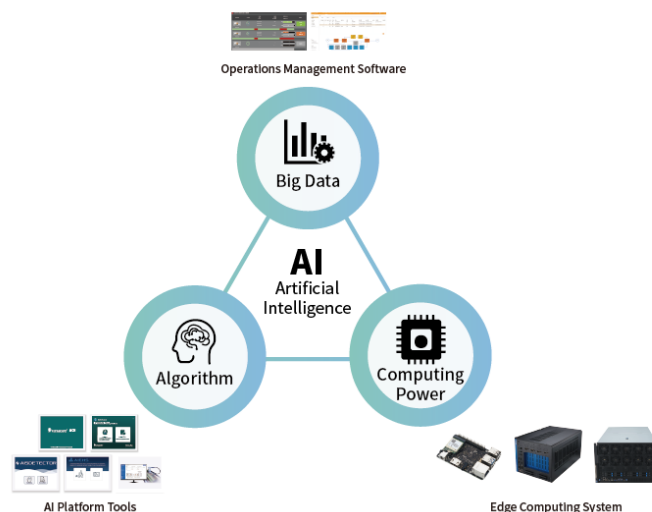


## Starting with customer needs, achieving digital transformation.

From understanding to implementation, UPMOST uses innovative technology and professional services to help clients break through traditional frameworks, successfully achieve digital transformation, and enhance competitiveness.

## Smart Innovation Services start with the three core pillars of AI.

UPMOST's Smart Innovation Services are based on the three core pillars of AI, offering products and solutions related to "big data," "algorithms," and "computing power" to accelerate the implementation and deployment of AI applications for users.



## One-stop shopping for all your needs, enjoying the best benefits.

UPMOST has shifted from single hardware sales to providing "one-stop shopping" professional services, offering a complete and rich product line and application solutions to help clients shorten time and improve efficiency.

- Save time costs: Save time on "product search," "self-assessment," "compatibility testing," and "multi-vendor communication."
- Save procurement costs: "Centralized procurement for discounts," "reduce multiple negotiations, minimize manpower waste," and "single logistics delivery to reduce transportation costs."
- Enhance service quality: Enjoy "single-window technical consultation/after-sales service" and "quickly meet customer needs."

Data	Hardware				Software			Technology	Application
	Input	Process	Output	Other	Platform Tools				
	Word/Image	Computing	Display	Transmission	Image	Data	Voice		
<ul style="list-style-type: none"><li>•Number</li><li>•Word</li><li>•Image</li><li>•Video</li><li>•Audio</li><li>•Light</li><li>•Electric</li><li>•Liquid</li><li>•Gas</li><li>•Smoke</li><li>•Fire</li><li>•Vibration</li></ul>	<ul style="list-style-type: none"><li>•OCR</li><li>•Scanner</li><li>•Camera</li><li>•Webcam</li><li>•Microscope</li></ul>	<ul style="list-style-type: none"><li>•SBC</li><li>•Edge PC</li><li>•GPU Server</li><li>•Desktop</li><li>•Laptop</li></ul>	<ul style="list-style-type: none"><li>•Screen</li><li>•Mobile/Pad</li><li>•Monitor</li><li>•Touchscreen</li><li>•Advertising Display</li></ul>	<ul style="list-style-type: none"><li>•Amplifier</li><li>•Extender</li><li>•Switch</li><li>•Hub</li></ul>	<ul style="list-style-type: none"><li>• [ AOI Process ]</li><li>• UPMOST AOI</li></ul>	<ul style="list-style-type: none"><li>• [ State Prediction ]</li><li>• AISPHM</li></ul>	<ul style="list-style-type: none"><li>• [ Translation ]</li><li>• Conference Translation System</li></ul>	<ul style="list-style-type: none"><li>•5G</li><li>•IoT</li><li>•AI</li><li>•Big Data</li><li>•Automation</li><li>•Cyber Security</li></ul>	<ul style="list-style-type: none"><li>•Security Surveillance</li><li>•Access Control System</li><li>•Computer Vision</li><li>•Glasses-Free 3D</li></ul>
	<ul style="list-style-type: none"><li>•Audio</li><li>•Microphone</li></ul>	<ul style="list-style-type: none"><li>•Image</li><li>•Conference System</li><li>•Capture Card</li><li>•Streaming Box</li><li>•Video Mixer</li></ul>	<ul style="list-style-type: none"><li>•Storage</li><li>•HDD Enclosure</li><li>•Raid Card</li><li>•Memory/HDD</li></ul>	<ul style="list-style-type: none"><li>•Project</li><li>•Projector</li><li>•Wireless Display</li><li>•Cable</li></ul>	<ul style="list-style-type: none"><li>• [ Model Training ]</li><li>• AISVision</li></ul>	<ul style="list-style-type: none"><li>• [ Waveform ]</li><li>• AISDetector</li></ul>			
			<ul style="list-style-type: none"><li>•Automation</li><li>•Robotic Arm</li><li>•PLC</li><li>•Conveyor Belt</li><li>•Environmental Control System</li></ul>	<ul style="list-style-type: none"><li>•Convert</li><li>•Converter</li><li>•I/O Card</li></ul>	<ul style="list-style-type: none"><li>• [ Model Inference ]</li><li>• UPMOST AOI Runtime</li><li>• AISVision Runtime</li></ul>	<ul style="list-style-type: none"><li>• [ Collection ]</li><li>• ERP</li><li>• MES</li></ul>	<ul style="list-style-type: none"><li>•Automatic</li><li>• [ RPA ]</li><li>• UPMOST RPA</li></ul>		
	<ul style="list-style-type: none"><li>•Other</li><li>• [ Sensor ]</li><li>• AISSENS 100AW (Vibration)</li><li>•Other Sensor</li></ul>	<ul style="list-style-type: none"><li>•Audio</li><li>•Amplifier</li></ul>		<ul style="list-style-type: none"><li>•Detection</li><li>•HDMI Detector</li></ul>	<ul style="list-style-type: none"><li>• [ Enviornment ]</li><li>• AIEHS</li></ul>				
				<ul style="list-style-type: none"><li>•Power</li><li>•UPS</li></ul>					<ul style="list-style-type: none"><li>•Customized</li><li>•Security Surveillance</li><li>•Smart Factory</li><li>•Defect Detection</li><li>•Smart City</li><li>•Smart Rrtail</li><li>•Smart Medical</li></ul>

## Tailoring the best solutions based on industry needs.

Based on the needs of different industries and clients, we provide the necessary products and services to help users accelerate the completion of various applications across different industries.



### Manufacturing Industry

We provide related products such as components, modules, boards, and software modules.



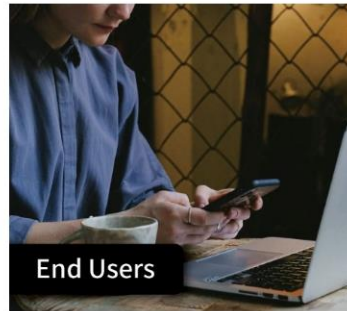
### Hardware and Software Developers

We provide specialized hardware or software products based on specific needs.



### System Integrators

We provide complete hardware and software integration solutions, covering technologies such as 5G, IoT, AI, big data analytics, automation, and cybersecurity.



### End Users

We bring a variety of technology products and smart applications to end users in various environments such as hospitals, conference rooms, offices, and command centers.

## Professional consulting services to ensure the best experience.

To ensure users can effectively solve problems, UPMOST collaborates with partners to provide professional service solutions, helping businesses stay up-to-date with the latest technologies and application trends, ensuring they maintain a competitive edge in the wave of digital transformation.

- Professional Consulting Services: Understand customer needs, assist in problem-solving, and provide the best solutions.
- Customized Solutions: Integrate "software," "hardware," and "systems" based on requirements to offer complete and actionable solutions.
- Successful Experience Sharing: Promote "new technologies," "industry exchanges," and "professional training courses" to help users stay ahead of the latest trends.



### Professional Consulting Services

Assisting in Problem Solving

#### Effective and Executable Systematic Solutions

- Digital Transformation  
(Business Decision-Making | Operations Management | Manufacturing Production)
- Smart Factory
- Lean Production
- Defect Detection
- License Plate Recognition
- Multimedia Integration



### Tailored Solutions

Building Smart Automation

#### Software, Hardware, and System Integration Services

- Edge Computing Development Board
- Edge Computing Host
- GPU Server
- Image Model Inference Tools
- Equipment Status Analysis Tools
- Signal Analysis and Detection Platform
- Field Hazard Detection Platform



### Experience Sharing

Enjoying Happiness and Innovation

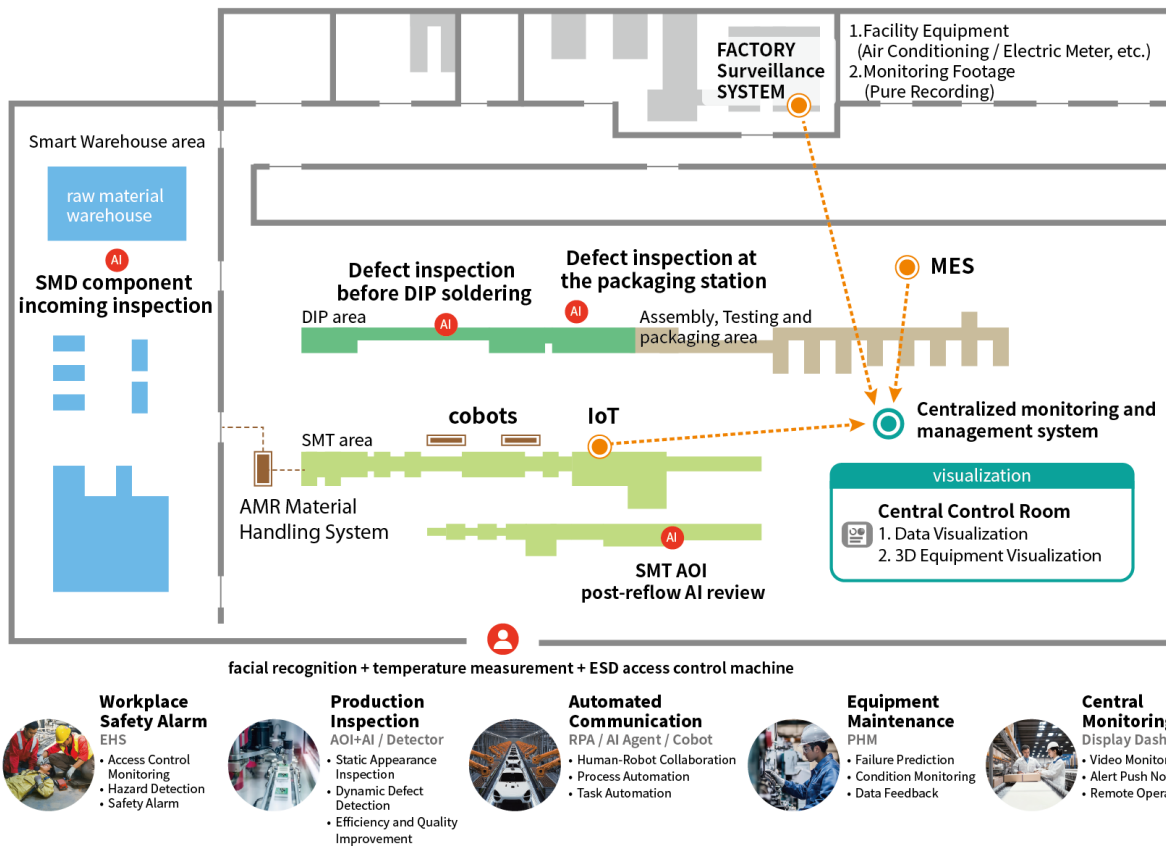
#### AI Tools, Professional Technology Sharing and Experience

- Software Program Development
- Hardware System Development
- System Integration Development
- Multimedia and Audio-Visual Applications



# Digital Transformation Example: Smart Manufacturing Factory

UPMOST Smart Innovation Services provide the necessary software, hardware, and solutions for areas in the factory such as SMD, SMT, DIP, and MES, helping to achieve digital transformation.



## Smart Manufacturing - AI Platform Tool Solutions

In digital transformation, to improve production efficiency and avoid manpower waste, UPMOST provides comprehensive smart manufacturing solutions with "Low Code" and "No Code" platforms. These solutions are not only applicable for building smart factories but can also be adapted for different applications across various industries and environments based on specific use cases.

# AI-driven Manufacturing Comprehensive Solutions



**Computer Vision Suite Easy Platform**  
UPMOST AOI



**UPMOST AISVision**



**AISDetector**  
Abnormal Waveform Analysis Software



**AIEHS**  
Smart Industrial Safety Protection Platform



**AISPHEM**  
Fault Prediction and Health Management Platform



**Multiple Use Cases**



**Quick Setup Easy to Use**



**Multiple Built-in Models**



**Low-Code Development**



**Accelerate Project Development**



**Data Analysis Predictive Prevention**

## Easy Vision Platform - Computer Vision Suite

- **No-Code, Workflow-Based Operation** : No programming required-built on a process-driven architecture.
- **Parameter-based & Quick setup** : Configured by non-technical users through simple parameter adjustments.
- **Rapid development** : Significantly reduces both development and maintenance cos

# Advanced Computer Vision Solution

## Computer Vision Suite AOI + AI Platform



**UPMOST AOI**  
AOI Software with  
High-Precision Image  
Pre-Processing

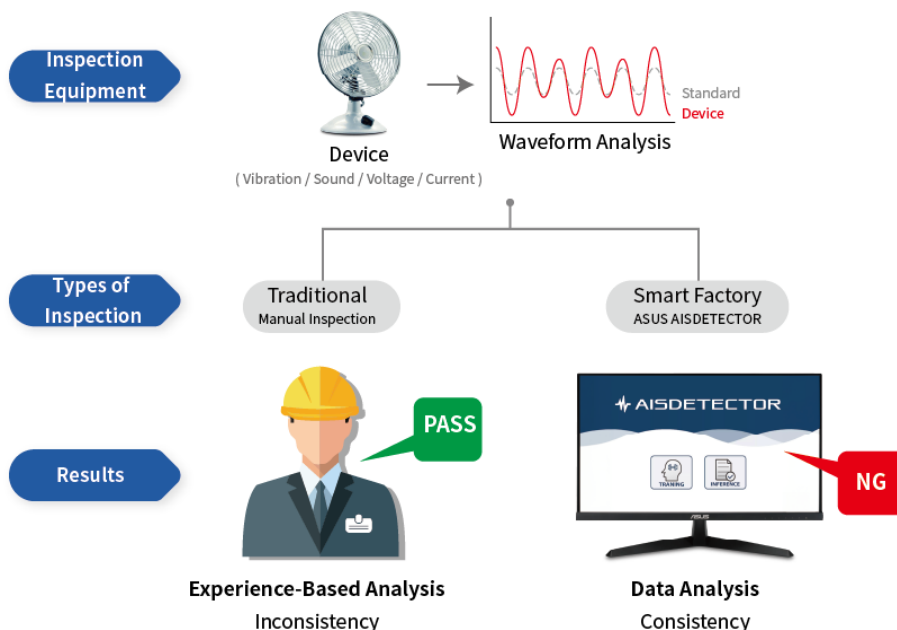


**UPMOST AISVISION**  
Professional AI model training  
software with 5 different  
algorithms.



## Signal Analysis and Anomaly Detection – AISDetector

- **Efficient AI Model Training and Validation** : Quickly build and validate an AI model using only a CPU and 5 good samples.
- **Dynamic Defect Detection** : Detect signals that can be converted into waveforms, such as vibration, sound, voltage, and current.



## Workplace Safety Measures – AIEHS

- **Real-Time Monitoring and Early Warning** : AI-powered real-time detection and alert system for equipment

failures, fire, and unsafe behavior.

- **Proactive Hazardous Action Detection** : Shift from passive response to proactive prevention, effectively enhancing safety protection capabilities.



#### On-Site Crowd Flow Monitoring

Monitor crowd density within the area, control the number of personnel in the region, and manage the maximum and minimum number of workers per area.



#### Personnel Crossing Line Monitoring

Directional monitoring of the number of personnel entering and exiting an area (In/Out).



#### Production Line Monitoring

Monitor the output of each production line to ensure accurate production quantities and assess production volume over specific time periods.



#### Human-Machine Collaboration Risk Identification

Identify complex operational behaviors during human-machine collaboration, assess risks, and provide real-time alerts in hazardous situations.



#### Operational Safety Action Verification

Verify whether personnel fully perform the required safety inspection actions, such as looking, pointing, and verbal confirmation, during operations.



#### Personnel Protective Equipment Identification

Check whether appropriate personal protective equipment, such as helmets, masks, and safety vests, is worn during operations.



#### Personnel Electronic Fence

Monitor whether personnel enter restricted areas.



#### Vehicle Electronic Fence

Monitor whether vehicles (large/small cars, trucks, motorcycles, trains) enter restricted areas.



#### Hazardous Item Detection

Monitor the environment for hazardous items (e.g., knives, guns) and promptly report to the management center.



#### Hazardous Behavior Detection

Monitor the environment for hazardous behaviors, including falls, violent actions, and signs of fatigue.



#### Flame Detection

Monitor for the presence of flames within the designated area.



#### Smoke Detection

Monitor for the presence of smoke within the designated area.

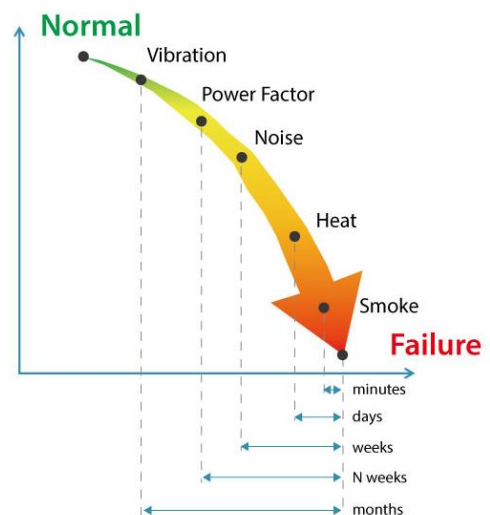
## Equipment Status Prediction – AISPHM

- **Real-Time Monitoring and Early Warning** : Provide a more comprehensive data sampling model to accurately capture equipment status changes.
- **Dedicated AI Model Design** : We provide custom AI models tailored to each device, enabling real-time monitoring and predictive maintenance.

## Computing Power System - Edge Computing Solutions



## Fault Prediction Timeline





For the data processing and inference application needs of digital transformation, UPMOST offers a complete edge computing system solution, ranging from low-power single-board systems to high-performance Edge PCs and GPU servers, covering all aspects comprehensively.

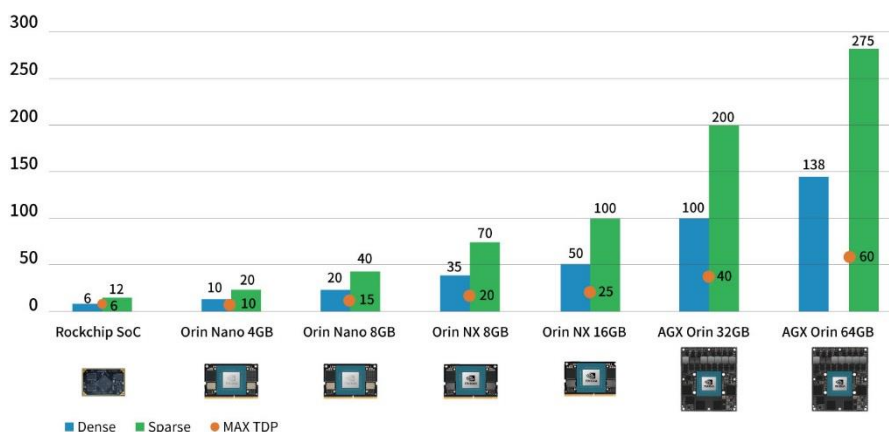
# AI Computing Power System Solutions

## Edge Computing System

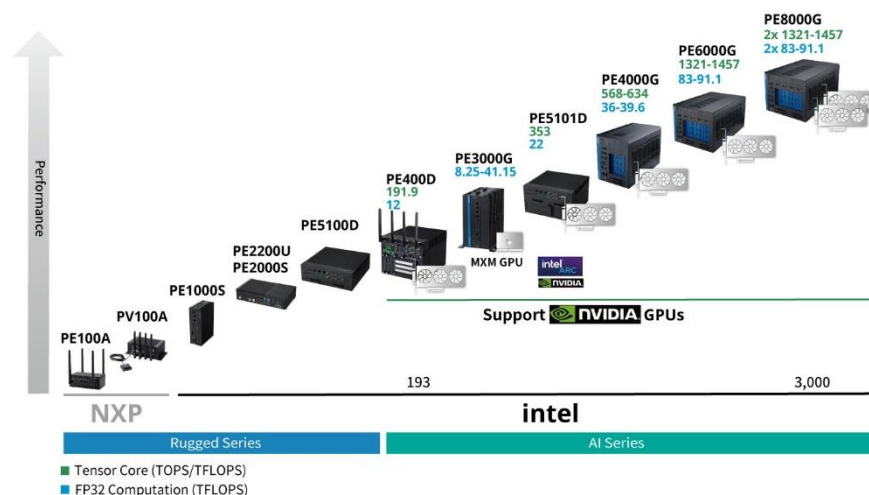
Single-board System      Edge PC      GPU Server

- High-performance Processor
- Various Computing Power Capabilities
- Supports AI Inference
- Multiple I/O Ports
- Efficient Heat Dissipation Design

Single-board system computing power



Edge PC computing power





# Digital Transformation - Operations Management Solutions

For customer data and data sources, we provide MES and ERP solutions, tailoring an effective operations management software based on customer needs to help businesses accelerate digital transformation and enhance competitiveness.


## Intelligent Digital Management Solutions

### MES & ERP Smart Systems




MES Smart Systems

ERP Smart Systems




Flexible Customization




Data Integration



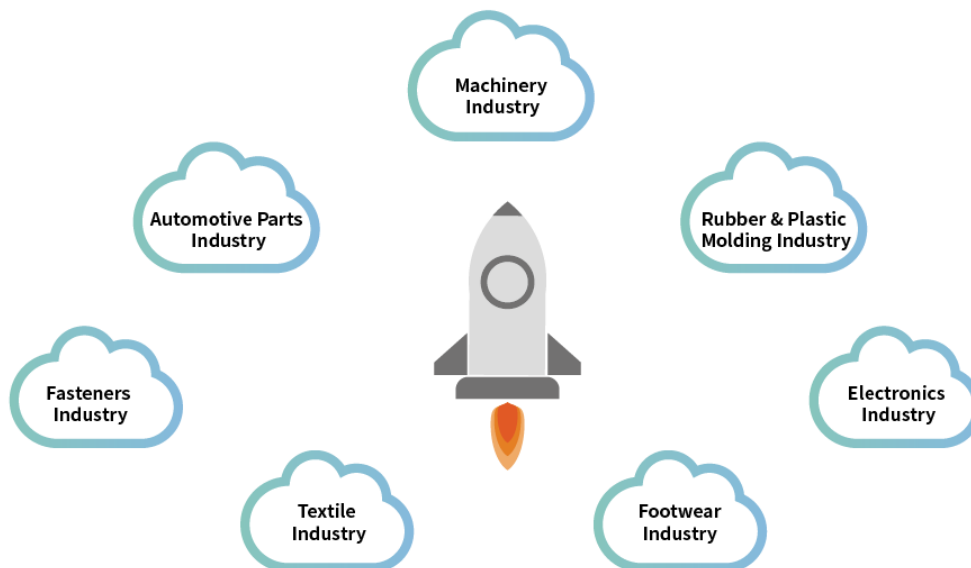
Real-time Monitoring



Efficiency Improvement



Diverse Applications



7 Key Industry Applications of Digital Transformation



# Monitoring and Management - Display Dashboard System Solutions

The display dashboard system can be used to implement monitoring in command centers, conference rooms, and advertising boards, helping businesses effectively operate and control, while displaying the required information.

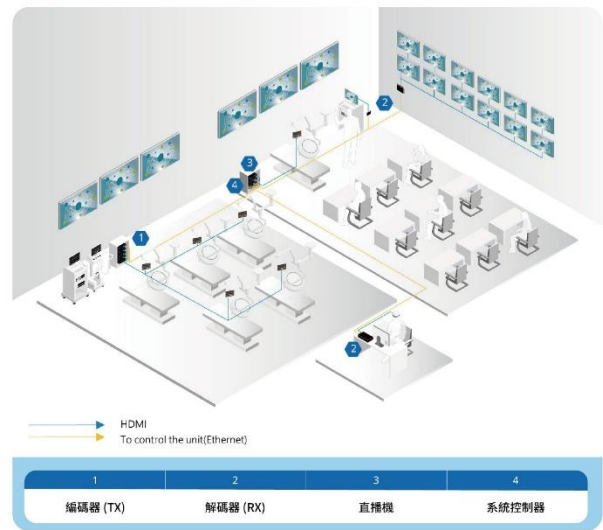
## AV over IP Multi-Display Solution



$\leq 30$ ms ultra-low latency	$\leq 240$ km long-distance transmission	 flexible scalability	 traditional audio and video AVoIP cost reduction	 web management
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**Factory Production**  
Manufacturing Monitoring Center



**Medical Center**  
Operation Training Center

## Peripheral products

In addition to AI core products, UPMOST also offers a wide range of peripheral products, such as Wi-Fi modules, I/O expansion cards, USB hubs, external hard drive enclosures, image processors, and other peripheral devices, providing users with integration and application option



Wi-Fi Moudle



I/O Expansion Card



USB HUB



External Hardware Enclosure



Capture



Audio Visual Processor



Wireless Transmitter



Digital Microscope



Barcode Scanner



## Partnering with users to co-create a smart future.

In the era of the Internet of Things and smart innovation, UPMOST leverages "hardware," "software," and "application solutions" as its core competitiveness, providing "high reliability," "high stability," and "high performance" integrated solutions. These solutions effectively address compatibility issues, reduce development costs and risks, and, driven by innovation, collaborate with users to co-create a smart future.

Company Information | UPMOST TECHNOLOGY CORP.

Establishment Time | 1992 / 1 / 8

Philosophy | Integrity · Quality · Service

Brands |  **UPMOST**<sup>®</sup> *Uptech*

Website | <https://www.upmostgroup.com/tw>

Website

