



# Success Stories



**Revolutionizing Manufacturing Efficiency and Connectivity in Electronic Equipment Production**

*HMI Panel PC Drives Digital Transformation in Production Equipment*

## Background

In the fast-paced world of electronic equipment manufacturing, staying ahead of the curve is crucial. Winmate's 14-inch HMI Panel PC series has emerged as a game-changer, enabling the successful digitization of production equipment for countless customers. This case study explores how Winmate's innovative solution has facilitated the seamless integration of various equipment, leading to enhanced efficiency, real-time monitoring, and the achievement of Industry 4.0 objectives.

## Core Product

- [W15IM3S-PPB2](#) - 14.9" ARM A53 PP Series HMI Panel PC

## Main Challenges

Electronic equipment manufacturers faced the challenge of integrating diverse production machinery, from punch presses to printing machines and AOI inspection machines. Connecting Programmable Logic Controllers (PLCs) and PC systems posed a hurdle, and there was a need for a solution that not only bridged the gap between different equipment but also enabled data visualization, capture, and cloud transmission.

## Why Winmate

Wimate's 14-inch HMI Panel PC series has proven to be a transformative solution for electronic equipment manufacturers, facilitating the digitization of production equipment and contributing to the realization of Industry 4.0 goals. This success story highlights the importance of innovative technologies in driving efficiency, connectivity, and competitiveness in the rapidly evolving landscape of electronic equipment manufacturing.

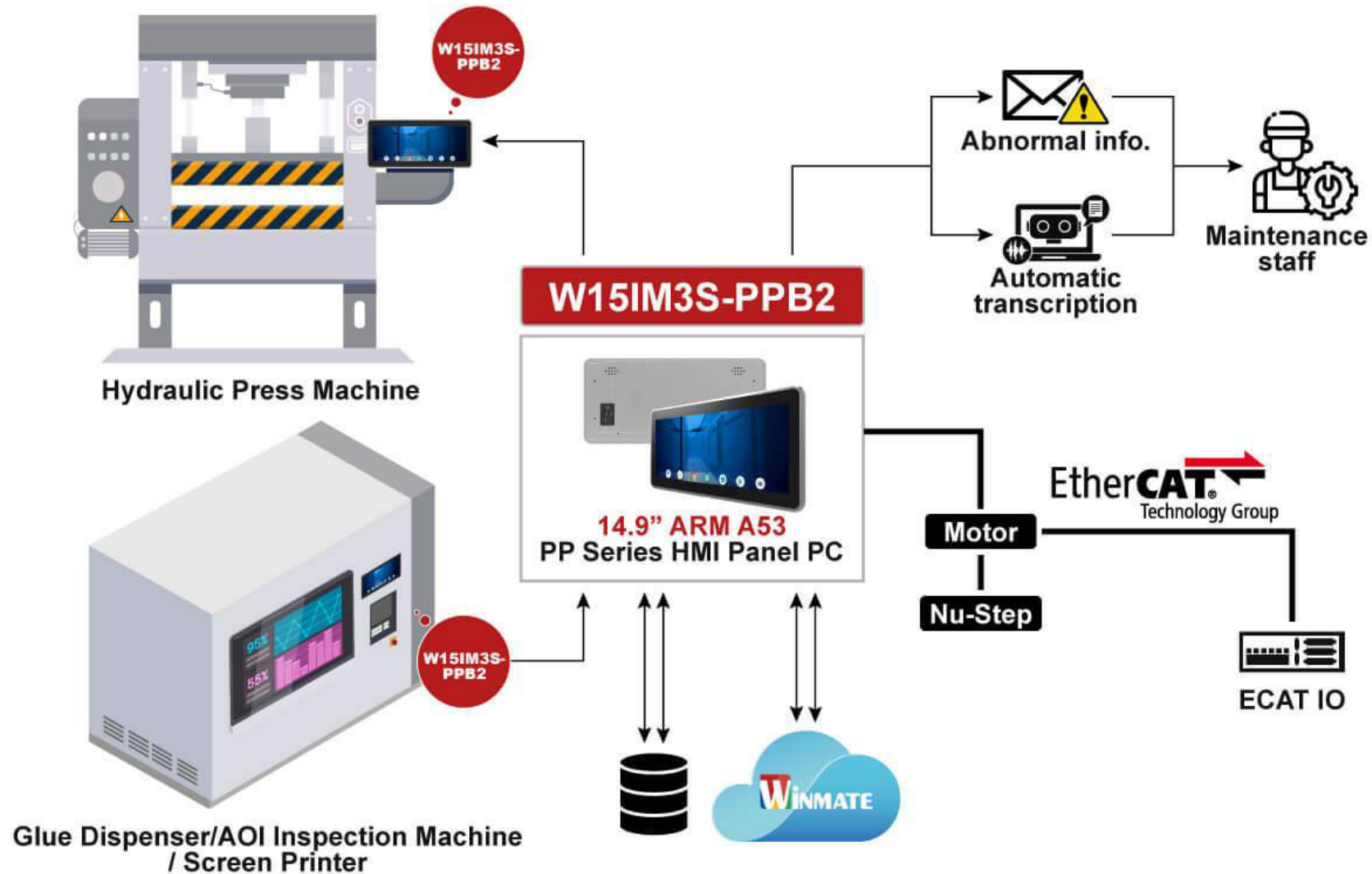
### Key Features

- **Integration with EtherCAT Motion Control Systems:** The HMI Panel PC seamlessly integrated with EtherCAT motion control systems, eliminating the need for additional controllers. This integration significantly boosted manufacturing efficiency by streamlining communication between different components.
- **Cost-Effective Solution:** Wimate's solution proved to be cost-effective, providing fast data access, collection, edge analytics, anomaly notifications, cloud synchronization, and machine-to-machine communication. This affordability contributed to the widespread adoption of the HMI Panel PC series across the manufacturing sector.
- **Real-Time Monitoring:** The HMI Panel PC enabled real-time monitoring of on-site environmental parameters in data centers. This feature led to improved production information access, allowing manufacturers to make data-driven decisions promptly.

# Application Diagram

## Revolutionizing Manufacturing Efficiency and Connectivity in Electronic Equipment Production

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## Related Product



### Winmate W15IM3S-PPB2

- 14.9" ARM A53 PP Series HMI Panel PC Supports Intel® 12/13th generation Alder Lake S/Raptor Lake S processor (LGA 1700)
- 14.9" 1920 x 720 panel with projected capacitive multitouch screen
- ARM A53 Quad Core 2.0GHz CPU
- Front IP65 water and dust proof
- Aluminum housing and fanless design
- Room booking schedule, access control, room information display
- Support Android or Linux operating system