Case Study

On-Demand Smart Packaging

Human-Machine Interface gives the complete command to automation

Human-Machine Interface (HMI) plays a crucial role in automation, enabling operators to control and monitor system performance. Its flexibility allows for easy adjustment of parameters and settings to meet different demands, making it an indispensable tool for workflow optimization. A reliable HMI is essential for achieving optimal automation performance.

Challenges

The customer was looking for a customized, industrial-grade touch panel PC for its automated packaging machine to improve operator productivity and achieve faster manufacturing throughput. The robust multi-touch panel PC should come with an IP55 stainless steel enclosure and have M12-type connectors for the power connector and LAN port to withstand vibrations from the machine.

Main Requirements

- 18.5-inch multi-touch projected capacitive screen
- IP55 and 316 stainless steel enclosure
- Fanless and flat panel design
- M12 power connector
- M12 GbE LAN
- Supports wireless connectivity
- Supports VESA mount

The rugged touch panel PC enables real-time control and monitoring of the automated production

Axiomtek has proposed a customized 18.5-inch stainless steel fanless touch panel PC, the GOT818W-511-C-DC, featuring the high-performance Intel® Core™ i5 processor. In addition to the IP55 rating, the power connector and one of the GbE LAN ports were upgraded to M12 type to increase tightness and vibration resistance. The GOT818W-511-C-DC is designed to withstand harsh industrial environments.

Application
The touch Panel PC enables box production in any size

The customer has integrated the GOT818W-511-C-DC with its on-demand packaging machinery via a VESA mount for instant viewing in production. With support of the tailor-made software, RSC boxes for any size product can be produced with just a few clicks, and the progress and schedule can be monitored at any time. The durability and long life cycle of the touch panel PC lower the costs for customers while optimizing workflow is expected to increase profits.

On-demand packaging solution saves materials to be environment-friendly and the right-sized box minimizes the void to reduce damage to the goods during transportation and saves shipping costs as well. As production turns to automation, it also reduces labor costs. Deploying the solution results in increased profits for the end users.

◄ **GOT818W-511-C-DC**
18.5" WXGA IP55-rated Stainless Steel Fanless Touch Panel PC

System configurations of the GOT818W-511-C-DC

- High performance Intel® Core™ i5 processor
- One 260-pin DDR4-2133 slot, up to 8GB
- IP55 and 316 stainless steel enclosure
- One 2.5" SATA SSD, up to 64GB
- M12 power connector (9 to 36VDC)
- M12 GbE LAN
- Two RS-232/422/485 ports
- Two USB 2.0 ports
- Two USB 3.0 ports

*For more touch panel computer information, please visit www.axiomtek.com or go to Products > Industrial Panel PCs >Rugged Fanless Touch Panel PC

Why Axiomtek

As one of the leaders in industrial PC, Axiomtek provides touch Panel PCs in various IP ratings, display sizes, resolutions, aspect ratios, and CPU levels. Customers can choose the system that best meets their needs and optimize the workflow with it. What is more, when customers have special requirements, we also provide ODM services to provide customized products that best meet their needs.

"More and more brands care about sustainable packaging to follow the ESG trends. We are devoted to amplifying eco-friendly packaging automation solutions, reducing packaging waste, and saving money. With Axiomtek's high-quality fanless Panel PC and prompt customized service, we can smoothly optimize our machinery in a short time," said the sourcing and supply manager of the customer.

About Axiomtek Co., Ltd.

Axiomtek has experienced extraordinary growth in the past 30 years because of our people, our years of learning which resulted in our tremendous industry experience, and our desire to deliver well-rounded, easy-to-integrate solutions to our customers. These factors have influenced us to invest in a growing team of engineers including software, hardware, firmware, and application engineers. For the next few decades, our success will be determined by our ability to lead with unique technologies for AIoT and serve our key markets with innovatively-designed solution packages of hardware and software – coupled with unmatched engineering and value-added services that will help lessen the challenges faced by our systems integrator, OEM and ODM customers and prospects alike. We will continue to enlist more technology partners and increase collaborations with our growing ecosystem who are leaders in their fields. With such alliances, we will create synergy and better deliver solutions, value, and the expertise our customers need.