



Case Study: Data Collection Kiosk for Production Lines

(GOT5152T-845)

Touch Panel PCs as Smart Factory HMIs

Industrial touch panel PCs are expanding their roles as ideal Human-Machine Interfaces (HMIs) in factory automation, revolutionizing the way modern manufacturing sites operate. Using a visualized touchscreen display that enables simplified equipment control through intuitive dashboards, industrial touch panel PCs provide efficient ways for plant operators to interact with their machines, allowing them to quickly identify and resolve issues. When being networked to a central control location, industrial touch panel PCs make it convenient for managers to remotely monitor production processes, track in-field devices, and respond to emergencies in real-time – without requiring actual onsite visits.

Axiomtek's heavy-duty touch panel PCs pack all of these benefits together to make factories smarter, safer and more efficient. They are engineered to be utilized as sophisticated operator interfaces in both factory control centers and production lines, with robust features including industrial-grade IP65, NEMA 4-rated water/dust-proof design, high brightness, wide operating temperature ranges, as well as remarkable heat dissipation to withstand exceedingly harsh conditions and ensure ultimate performance at manufacturing sites.

Axiomtek's GOT5152T-845 as Workstation Kiosk HMI

Challenges

The customer has specialized in producing cardan shafts for the automotive industry for decades, with hundreds of employees and striving to become a leading global brand. The customer was looking for a 15-inch all-in-one touch panel PC to develop a data collection kiosk for its production lines. The desirable industrial-grade panel PC had to support a low-power Intel® Celeron® processor and come equipped with a resistive touchscreen. To ensure seamless integration into kiosks, the panel computer needed to support a panel mount. It was also required to deliver high quality performance with an attractive price-performance ratio.

Main requirements

- 15" XGA TFT LCD display with a resolution of 1024 x 768 pixels
- Low-power dual-core Intel® Celeron® processor
- Resistive touchscreen
- Supports panel mount
- Cost-effectiveness

Axiomtek's solution

To meet the customer requirements, Axiomtek has proposed its GOT5152T-845, a lightweight, ultra-slim 15-inch fanless touch panel PC powered by the Intel® Celeron® processor N3060. The GOT5152T-845 has a 15-inch XGA TFT LCD display that comes with a resistive touchscreen and is capable of generating 450 nits of brightness. Featuring an IP65-rated, space-saving design with 54.6 mm thickness, this budget-friendly panel PC not only delivers high durability but is perfectly fit for use in space-constrained environments. Axiomtek's patented plastic plus aluminum mechanism design allows the GOT5152T-845 to dissipate heat efficiently in order to achieve optimal system operation. It also offers various mounting options including panel mount, wall mount and desktop stand to maximize installation flexibility.

GOT5152T-845 features & system configurations



- 15" XGA TFT LCD display with LED backlight
- Intel® Celeron® processor N3060 onboard
- Super slim & ultra lightweight design
- Resistive touchscreen
- Two GbE LAN, four USB and two COM ports
- Two PCI Express Mini Card slots
- IP65-rated plastic front bezel with excellent thermal solution
- Fanless operation and noise free
- Supports panel mount, wall mount and desktop stand

*For detailed specifications, visit www.axiomtek.com and go to: [Products > Industrial Panel PCs > Fanless Touch Panel PC > Light Fanless Touch Panel PC > GOT5152T-845](#).

Application

The customer has chosen Axiomtek's GOT5152T-845 touch panel PC as an industrial HMI to develop its data collection workstation for production line operations. Serving as an advanced control panel for the workstation kiosk, the GOT5152T-845 is used not only for performing data collection, but also for better manipulation and monitoring of the production processes. Packaged in a lightweight, ultra-slim housing for easy installation and operation, the GOT5152T-845 has proven to be an ideal HMI solution that provides low-power performance, reliable quality, rich features, as well as cost savings for deploying industrial kiosks in smart factory applications.



Why Axiomtek

The customer has chosen Axiomtek as a trustworthy partner because of its:

- Strong customer relationship
- Effective internal communication and fast response
- Fast technical support and excellent after-sales service
- High quality products with short lead time

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.

Axiomtek is a Member of the Intel IoT® Solutions Alliance. A global ecosystem of more than 800 industry leaders, the Alliance offers its Members unique access to Intel technology, expertise, and go-to-market support—accelerating deployment of best-in-class solutions.