



DFI

Rugged Industrial Panel PC, Create Car Wash POS That Is Beneficial To Customers

Today's self-service car wash business requires fast and straightforward point-of-sale (POS) solutions to ensure maximum service energy and customer satisfaction. A car wash POS with a touch screen that is truly conducive to outdoor operation and can withstand wind and rain is the backbone of the entire vehicle washing industry. Therefore, choosing the right POS system is as important as choosing the deployment location. DFI's rugged industrial panel PC assists well-known American car wash POS manufacturers to create the most convenient car wash POS for customers.

Region: **United States**

Industry: **Self-service car wash**

Application: **Self-service car wash/
vacuum cleaner POS**

Solution: **KS101-BT**



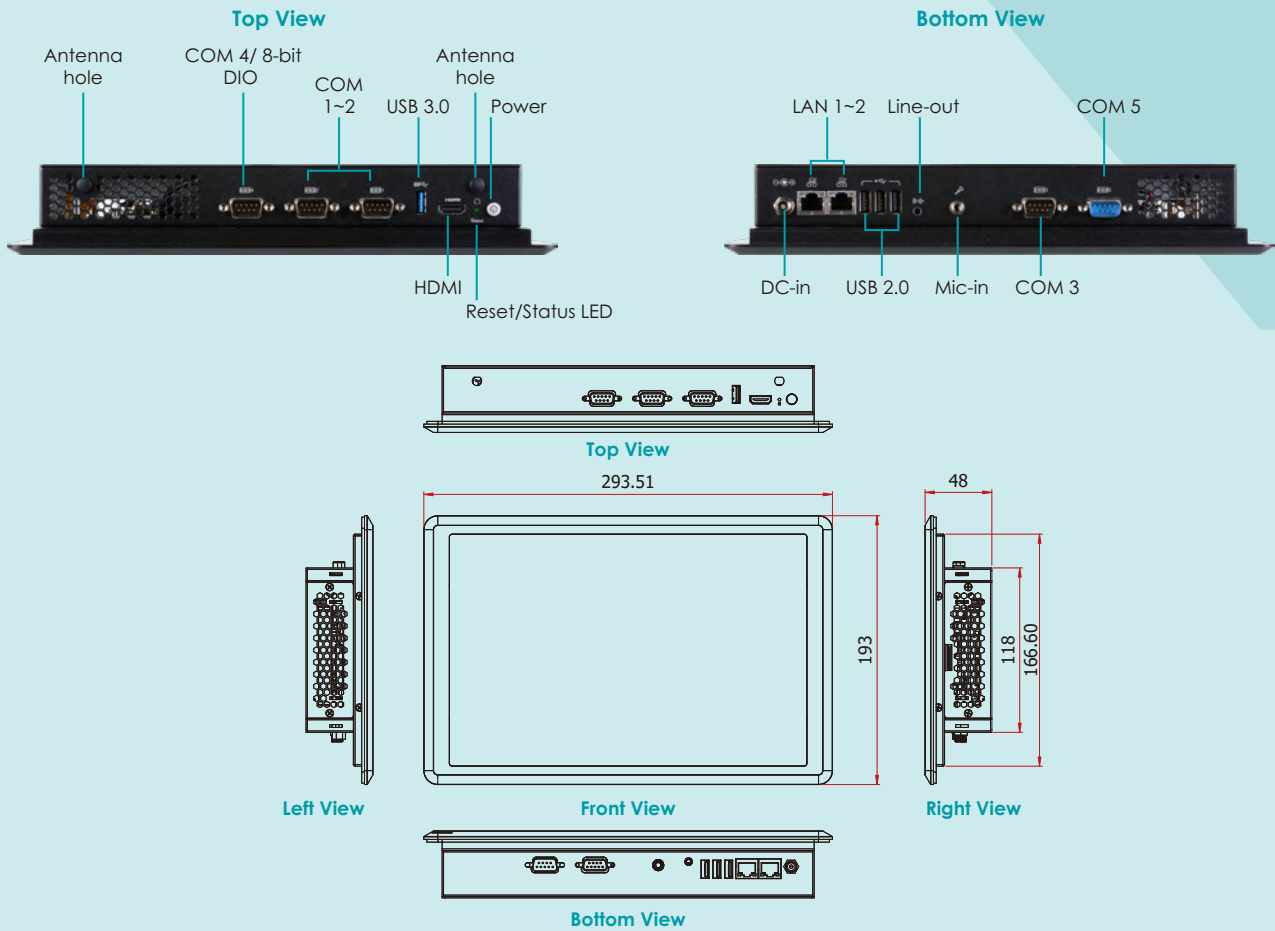


The traditional manual car wash shops have challenges against 24-hour car washes; self-service car wash machines and vacuum cleaners can be seen everywhere. With the popularization of the industrial Internet of Things, their management has gradually become cloud-based and unmanned, and the operation interface has gradually evolved. In the past, it only provided the functions of coin insertion, coin withdrawal, and physical service selection buttons. Like the new generation of vending machines, the host with the most powerful computing performance and full-color touch panel will facilitate the upgrade needed for diversified services and be used as a marketing platform to attract customers' attention. Therefore, using a panel PC as the control core of the self-service car washing machine is the easiest and fastest way to develop products.

However, both the self-service car washing and vacuum cleaning POS are often deployed in harsh outdoor environments, especially in the United States, and vast and sparsely populated that cover

different geographic characteristics. Extremely high reliability and durability, high-efficiency fanless heat dissipation, waterproofing, dust proofing, wide voltage input, and comprehensive temperature operation are all indispensable.

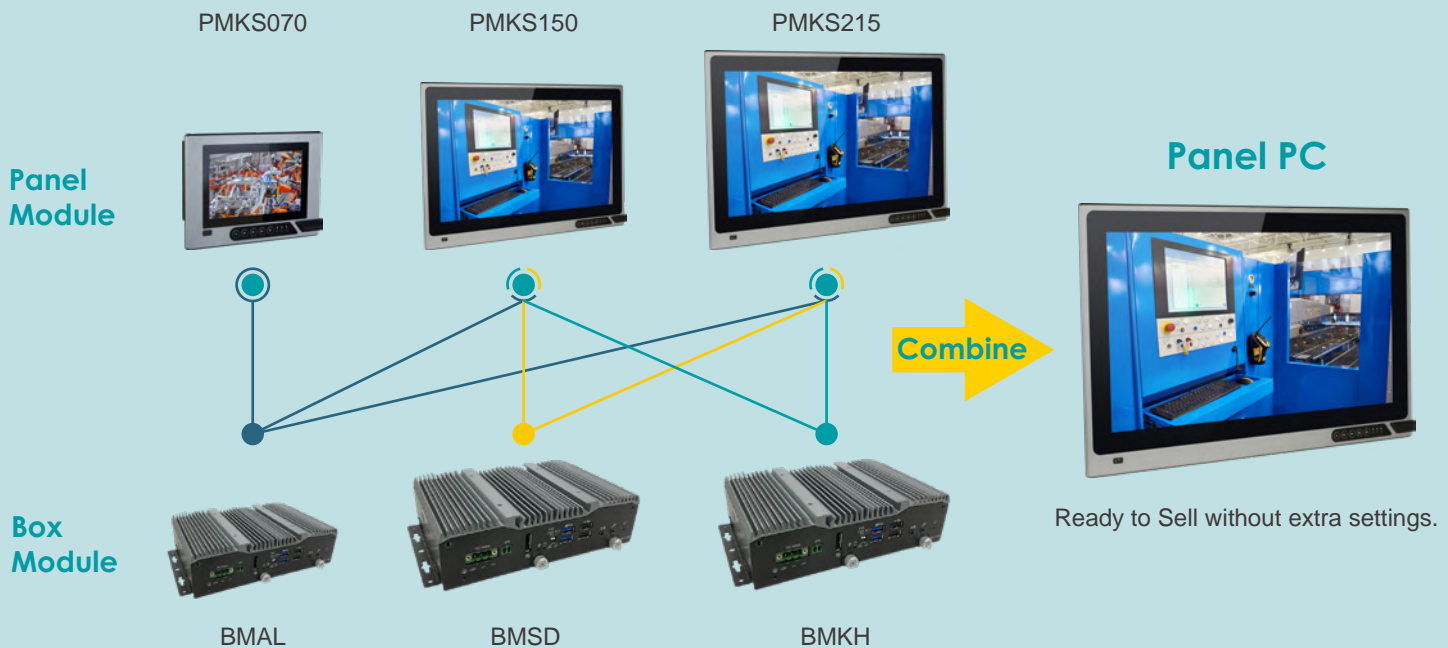
DFI's KS101-BT is an industrial-grade touch panel computer with all the above advantages. Not only does it have an IP65-certificated dust-proof and waterproof front panel, but it can also install a 2.5-inch SATA storage device, supports mSATA, and is easy to mount on a VESA-compliant panel mount. KS101-BT provides rich I/O interface (LAN, USB, COM) enough to connect all peripheral devices, up to 50,000 hours of panel backlight, broad voltage input (16-24V), comprehensive temperature operation (0 to 60°C), complete anti-shock and anti-vibration verification, and a 15-year supply period extended to the fourth quarter of 2028. These features make KS101-BT suitable for high flexibility and simple system integration, making it the brain and heart of self-service car wash and vacuum cleaner POS.



KS101-BT also supports WiFi, 4G LTE, and a built-in SIM slot. In self-service washing stations, where it is challenging to deploy Ethernet, it is more convenient to connect to customers' self-developed cloud management system. It can use secure encryption to transmit information through the Internet throughout the organization, including labor and customer historical data. They are making it able to customize the functions and services of the car wash POS system in a way that reflects the fundamental operation of the business and assists the self-service car wash industry to develop its business more smoothly.

Not only that, but DFI developed a brand-new series of product line - KSM series which adopts an "Adaptive Display Platform", an emerging and innovative approach to modularized touch panel PC design. This diverse combination of computing units and touchscreens provides system integrators a more flexible and cost-efficiency solution by merely upgrading certain modules instead of the whole unit. With the advantage of updating prospects, easy maintenance, and rugged design, DFI's new-series industrial all-in-one PCs with ADP technology are the ideal solutions for factory automation, transportation, in-vehicle, and critical mission applications. Of course, this also includes the

KSM Series - Modular Panel PC with multiple sizes of panels & box module



self-service car wash industry.

DFI's modular touchscreen computers can freely choose the box PC's processing capability and the panel's size, depending on their requirements. Customers can also choose from over thirty kinds of I/O expansion modules, along with resistive single-touch or projected capacitive multi-touch displays, to build highly customized solutions. Mounting or changing a touch panel or box module has never been more straightforward as the modular design can be completed within two steps. ADP technology helps HMI (Human Machine Interface) panel PC achieve easy installation, maintenance and ensures no long-term interruption while upgrading or maintaining the equipment.

DFI has launched various touch panel computers to provide advanced display and computing technology,

operating stably in any industrial environment. By integrating the industrial-grade system with the panel, the series of products have a high degree of stability, reliability, and excellent display performance, which can meet the critical needs of any application field. A self-service car wash is only the tip of the iceberg.

Reference Information:

[Industrial Panel PCs & Displays Catalog](#)

[KS101-BT Datasheet](#)

[KSM-Series](#)

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DFI

Founded in 1981, DFI is a global leading provider of high-performance computing technology across multiple embedded industries. With its innovative design and premium quality management system, DFI's industrial-grade solutions enable customers to optimize their equipment and ensure high reliability, long-term life cycle, and 24/7 durability in a breadth of markets including factory automation, medical, gaming, transportation, smart energy, defense, and intelligent retail.

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