

# EM-I10U tablet boosts productivity in Zhanjiang Wharf



## Challenge

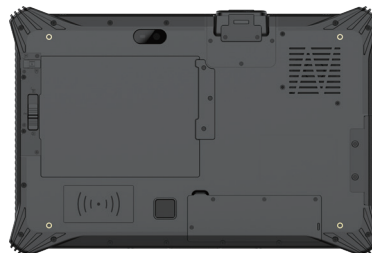
The trade between countries is becoming more and more frequent, and the flow of goods at the terminal is also increasing. The rapid growth of container throughput has put unprecedented pressure to the operation of Zhanjiang Wharf. In order to improve the circulation speed of port goods and realize the informatization, standardization and automation of container transportation, Zhanjiang Wharf needed to find a reliable electronic device that can operate the port management system in a wet, corrosive and high vibration work environment to assist the port work.

## Solution

The strong environmental tolerance and stable working efficiency of the EM-I10U rugged tablet in the environmental tests of wind, rain, salt spray, humidity and high temperature have become the key reasons for it to be selected by Zhanjiang Wharf. The reinforced body of EM-I10U is designed for challenging environments, even if it needs to be exposed to dust or extremely hot/cold temperatures for a long time, or it is placed on a transport forklift to shake for hours. Meanwhile, its sunlight readable display and undisturbed network connectivity allow port staff to work efficiently.

## Benefits

The reinforced tablet EM-I10U fully meets the needs of port operations. It has a high-visibility 10.1-inch capacitive touch screen and a stable network communication that can be connected to the control center for data exchange in real time. Operators can use a simple user interface And one-click menu options to complete tasks such as instruction receiving/sending, data uploading, and real-time monitoring of cargo data. Its sturdy body meets MIL-STD-810G military standards and is IP65 rated to withstand the high humidity, corrosive air environment of a port, and the constant vibrations of forklift operation during operation. Less equipment downtime and failures lead to higher productivity.



EM-I10U  
Rugged Tablet PC

## Challenge

The loading and unloading of container transportation is a fast-paced operation. The inability to accurately locate the container and complete the order in a short period of time means inefficient operation and slow cargo flow. So as to improve the profitability of terminal operations, the shortest possible loading and unloading time, optimized terminal management, reliable container position monitoring, and increased loading have become the primary issues for the terminal to solve. For these goals, Zhanjiang Wharf



has started to adopt a new container yard management system for planning container unloading and loading operations. The newly upgraded management system needs high-performance devices based on Windows 10 OS to provide seamless software compatibility. In addition, the operating environment of the marine container port is very challenging for the equipment, and the computer that can work without errors under the harsh weather conditions of the port is also very important. Ordinary computers are easily damaged when subjected to drops, impacts, extreme temperatures, dirt and general rough handling, resulting in forced slowdowns and interruptions in operations. Considering the critical role of computer stability in daily operations, Zhanjiang Wharf decided to look for rugged mobile computers that could provide reliable technology under the harsh conditions of the port.

## Solution

For finding an enterprise tablet with best-in-class robustness, Zhanjiang Wharf conducted a comprehensive test on the devices of different manufacturers. It not only studied the pressure resistance of the equipment in extreme environments, but also checked its compatibility with the management system required by the enterprise. In the end, they chose Emdoor's rugged tablet EM-I10U. The I10U is an outstanding industrial-grade tablet which has strong performance and large capacity battery to meet the challenges of busy port operations, and also equips a 10.1-inch display that is equally readable in sunlight or rain.



Zhanjiang Wharf deploys the I10U tablet computer loaded with the management system as a vehicle-mounted digital console to all container handling equipment including cranes, gantry cranes, and yard trailers. With a HD touchscreen, I10U provides operators and drivers with all the information they need for the job at all times with an intuitive user interface, including a graphical view of the field, upcoming moves and reprocessing counts for each job. Information interaction with the control center through simple touch input and retrieval of important data allows operators to maintain continuous contact with the control center. With excellent WLAN technology, I10U enables operators to obtain job scheduling instructions in real time, and can dynamically update container location and loading and unloading status to the system

background. And also enables managers to monitor logistics and workflow in order to allocate needed resources in a timely manner. Furthermore, the I10U provides powerful processing power for the port's busy operational challenges, ensuring port operations run smoothly day and night.

## Benefits

With IP65 protection and MIL-STD-810G certification, the I10U tablet is the ideal vehicle-mounted computer for container handling equipment. It is fully compliant for operators and technicians working outdoors, reliability that is not easily compromised by port environments full of risk factors such as fog, frost, stormy weather and salt water exposure reduces the risk of costly downtime. In terms of high efficiency, the performance of the I10U tablet also makes operators very satisfied. Benefit from the powerful functions of I10U rugged tablet, Zhanjiang Wharf has obtained the ability to handle goods quickly. The I10U's highly compatible Windows 10 system and a processor that can quickly perform complex tasks, accelerating the formation of automated unloading and loading operations at Zhanjiang port. The latest WLAN, LTE and Bluetooth technologies on the I10U tablet provide excellent wireless connectivity and uninterrupted data transfer, helping simplify and improve data transfer between operators and the control center, while allowing the control center to monitor operators and timely adjust task instructions timely. Thanks to the sunlight-readable screen, the I10U provides forklift operators with a clear pick list and operational task display, enabling them to complete tasks easily and quickly. Elsewhere, the removable and durable battery of the I10U tablet can provide strong support for the 24-hour uninterrupted operation of the port.