



# WHITE PAPER

*Wincomm Medical Panel PC – Wincomm Medical  
Fanless Hot-swappable Batteries Touch Panel PC  
Has Won the Best Choice Golden Award 2018 and  
COMPUTEX d&i awards 2018*

Wincomm Corporation

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## *Wincomm Medical Cart Panel PC – Suit for Edge Computing Utilization*

Wincomm has developed the WMP-22G, a leading performance, equipped with a high-powered Intel Kabylake CPU platform, to win two awards – Best Choice Golden Award and COMPUTEX d&i awards 2018. It features integrated 3 hot-swappable batteries, i-Control design for thermal, power and CPU intelligent management, operating 24 / 7 run time at stable performance. In addition, Wincomm developed i-control intelligent management system, can optimize the power supply, while taking into account the cooling and CPU performance utilization management.



Figure 1: WMP-22G Series

The traditional medical panel PC focused on hardware design improvements, fanless thermal design to maintain the quiet medical environment, anti-bacterial housing can prevent secondary infection in hospitals. Toward Medical 4.0 IoT trend, it will be featured in mobility, cable-less, and high value performance. With more than 20 years on medical panel pc design experiences which comes with better understanding of medical employee user behaviors, WMP-22G is designed to be used in medical environment, featuring the anti-bacterial, fanless, and intelligent i-control management, optimizing thermal, power and CPU performance utilization management system. With up to three hot-swappable batteries design and intelligent i-control management, it could support 24/7 run time, non-stop operation and hot key design to benefit medical employees on urgent, secure, long-term but intuition operation. In product certifications, the WMP-22G has passed highest level of medical safety protection EMC 4.0/ Safety 3.1 certification. Our users have a higher protection level in their health and safety from the electromagnetic waves while using the WMP-22G.

In addition to the power security management design, WMP-22G support Intel vPro technology by CPU, intelligent remote monitor / control / device SW management. In medical image system, FHD video real-time streaming to support hospital theatre on real-time surgical imaging needs.

The Golden Award Winning WMP-22G will be on display at the 2018 Computex exhibition booths Nangang Exhibition Hall 1F K0601 and Taiwan Excellence I0108 / Best choice I0307/ 4F D&I award. Also on display will be food-grade stainless steel models and medical grade touch panel models. Everything, from the mainboard, BIOS, driver to the mechanical design was designed by Wincomm, so we could provide innovative service with special customization service and steady long-term supply commitment to our worldwide customers.

In the design concept, Wincomm retains its flexible expansion slot design with a PCI-E [x4] slot. WMP-22G can also be equipped with a 4KV Isolation COM / LAN / USB module. Signal isolation can block noise, reduce interference, and improve the transmission quality of the signal. This can prevent damage to expensive devices and the Panel PC, as well improving the user safety.

WMP-22G have acquired the latest Medical UL/EN 60601-1 4th edition certification, IEC-62133, Energy star 6.1 Compliance with FCC / CE / VCCI Class B; With better performance on energy saving and greatly improved safety on the electromagnetic wave, users are relieved from security concerns. The latest Medical UL/EN 60601-1 4th edition certification has higher requirements of EMC compliance. ESD levels are increased from 8KV air to 15KV air, and contact from 6KV to 8KV. Wincomm's Medical 60601-1 4th certification means their products can withstand higher amounts of environmental electromagnetic waves, resulting in more robust products and a substantial increase in user safety.



Figure 2: Medical UL/EN 60601-1 4th edition ; FCC / CE / VCCI Class B ; Energy star 6.1 Compliance

Wincomm has branches and offices in United States, Japan, and Europe, and dozens of channel partners. Currently the two winning products are already available on the market for sale. Please contact via email: [sales\\_support@wincomm.com.tw](mailto:sales_support@wincomm.com.tw), For more product information please visit the website <http://www.wincomm.com.tw/>.



## About Wincomm

Wincomm is one of Taiwan's leading manufacturer of industrial computer and embedded computer products. Wincomm designs and develops all in one panel PC, rugged box PC and embedded software products for a broad range of industries and applications. Wincomm aims to provide hardware and software integrated solutions for the most variant environments such as industrial automation, human machine interface control, infotainment Kiosk, and medical computing.