

## Wincomm's Medical Panel PC WMP-17 S & Plus for More Diversified Needs

*Less-hole housing is best for clinic cart, robust serial communication is reliable for device control*

**Hsinchu, Taiwan, May 7, 2010** – Wincomm introduced 17" Core 2 Duo medical panel PC WMP-171/172 for more than one year, this product is certified with UL/IEC 60601-1-1 (medical electrical system safety requirements) and 60601-1-2 (electromagnetic compatibility) standards and is a medical grade all-in-one PC for medical computing applications.

Base on the same design, Wincomm extends the product to "S" series for basic computing tasks and clinic cart application, also the "Plus" series with robust isolated serial communications for external device control.



*"S" series w/o WebCAM hole*



*"S" series w/o PCI expansion*



*"Plus" series w isolated RS-232*

### The WMP-17 S & Plus series

For simple computing tasks or clinic cart application, while the expansion & accessories are not so much required, immediate plug-and-play and less-hole housing are more practical. For such applications, Wincomm reconfigures the WMP-171 & 172 for the S series models. Below is the major difference --

	WMP-171 & 172	WMP-171S & 172S
PCI expansion slot (w/ internal riser card)	x 1	None
CF card reader	x 1	None
Serial port - RS-232	x 2	x 2
Serial port – RS-232/422/485	x 1	None
Front bezel w/ WebCAM hole	Standard	None
I/O connector cover	Standard	Optional

For some applications, WMP-17 is used to connect and control other medical device through serial RS-232, the medical device is then used for patient diagnosis/treatment.

Most likely the PC and the connected device do not share a common power outlet and will occasionally be exposed to common mode surges as current is dumped to ground due to system faults or lighting discharges, the electrons will then take short-cut through RS-232 cable and such abnormal current will cause malfunction or damage to both devices.

Wincomm modifies the WMP-17 serial communication ports design to add the Galvanic isolation circuitry to break and isolate the grounding path between devices with air-gaps and optical devices thus eliminate all grounding plus surge problems.



	WMP-171 & 172	WMP-171Plus & 172Plus
Serial port – RS-232	x 2	x 2 isolated
Serial port – RS-232/422/485	x 1	None

### The WMP-17 common features

For WMP-171 and 172 (of S & Plus series), both are based on the same mobile Intel GME965 plus ICH8M chipset, the main difference is the CPU (computing power) and thermal solution (w/ fan or fanless).

	WMP-171S & Plus	WMP-172S & Plus
CPU (standard): Intel Core 2 Duo	T7500 2.2 GHz	U7500 1.06 GHz (ultra low voltage)
CPU: Thermal Design Power (TDP) / lower is better	35 watts	10 watts
PCMark05: CPU / Graphics score / higher is better	5499 / 1409	2718 / 1006
Fanless	No	Yes
Smart fan design (variable speed)	Yes	No need

The integrated 17" LCD is with 1280x1024 resolution and 380 nits brightness; front bezel mechanical design is reserved to add resistive touch or protection filter.

Two 2W speakers are integrated; optional I/O cover can be integrated w/ microphone and together w/ the 2M pixel Web camera, the audio/video communication is ready to go.

For networking, two gigabit Ethernet LAN is standard, optional 802.11 b/g/n mini PCI-e module with internal antenna provides immediate wireless mobility.

The plastic housing is built w/ anti-bacteria coating and is very compact (only 83 mm depth); VESA 75/100 mounting is very convenient for simple pole mount or wall mounting arm; also available is a optional desktop metal stand with anti-bacteria coating.

### Summary

Wincomm's all-in-one WMP-17 medical grade panel PC is an ideal solution for medical computing, the latest "S" series is immediate ready for plug-and-play and clinic cart application, the "Plus" series is more reliable to control other medical devices.

###

If you have any questions or further requests, please feel free to contact our Sales representatives or mail directly to [sales\\_support@wincomm.com.tw](mailto:sales_support@wincomm.com.tw)

### Wincomm Corporation

3F, No. 14, Prosperity Road II, Science-Based Industrial Park, Hsinchu, Taiwan R.O.C.

Tel: +886 3 578 0000 Fax: +886 3 578 0295 Web: [www.wincomm.com.tw](http://www.wincomm.com.tw)