

## The First IP67 Fanless Industrial Panel PC in the World

### Wincomm Upgrades Its 15" Industrial Panel PC for Harsh and Hygienic Applications

**Hsin-Chu, Taiwan, March 25, 2010** – WTP-8865 series is Wincomm's all-in-one industrial panel PC with high protection enclosure design to achieve high level water & dust resistant and is an ideal solution for harsh and hygienic environments. Such demanding applications can be as the shop floor terminal for chemical & steel plants where high exposure to spray, heat and air-borne particles; or used in the food production, critical clinical site, and pharmaceuticals laboratories where strictest hygienic requirements is a must.

For Wincomm's 15" Intel Atom based WTP-8865-15 high protection industrial panel PC, our latest efforts is to upgrade the design to IP67 (NEMA 6) enclosure protection and fanless operation.



*WTP-8865-15 IP67 design w/ 316 stainless steel*



*The IEC 60529 IP67 enclosure protection illustration*

#### **IP67 (NEMA 6) enclosure protection**

The International Standard IEC 60529 defines IP (International Protection or Ingress Protection) rating, the first code "6" indicates no ingress of dust (dust tight condition), the second code "7" indicates no ingress of water for up to 1 meter submersion under defined conditions of pressure & time (30 minutes).

To achieve this IP67 high protection, Wincomm designs the whole enclosure without any exposed ventilation slots, minimize housing joints and sealed with rubbers/gaskets, glue the touch panel seamlessly to the bezel, use waterproof type I/O connectors and membrane keypad. Further more, we use marine grade corrosion resistant type 316 stainless steel to create a smooth surface housing which can repels dirt, dust and water effectively and makes extensive cleaning an easy task.

With such complete closed construction, we need to consider a possible side-effect. The operating heat will be accumulated inside the housing and cause expansion effect, or after cooling-off, there will be condensed moisture. Both may affect enclosure closeness or cause critical components damage. To prevent this, Wincomm adds a unique air-breathing design for heat emission without degrading the enclosure's IP67 rating.



### Fanless operation for 40°C ambient temperature

Previously WTP-8865-15 operates with smart fan and IP65 enclosure, with the new IP67 complete closed construction, it is even more difficult for fanless operation. Wincomm's mechanical & thermal engineers manage to find better component placement, better heatsink design to achieve the best heat dissipation for those thermal critical components (i.e. CPU, chipset, hard disk drive, and system memory). Now for up to 40°C ambient temperature, our WTP-8865-15 can operate without fan and is more quiet and reliable.

For some applications that required even higher ambient operating temperature, we can adapt wide range temperature hard disk drive, add one fan for system memory heat dissipation and the whole system can operate for up to 50°C ambient temperature.

### Other key features

- Touch integration: Resistive touch or IR touch panel with toughened glass (Due to IR sensors' sealing limitation, the IR touch panel integration will support IP65 rating).
- Intel Atom N270 1.6 GHz CPU, 533 MHz FSB, one SODIMM socket for 2 GB maximum memory.
- LCD panel: 15", 1024 x 768 resolution, 350 nits brightness.
- 2.5" SATA HDD with anti-vibration mechanism, PCI & mini-PCI-e expansion.
- External 80 watts universal power adaptor w/ 12V DC output.
- Dimension: 395 x 345 x 93.5 mm (W x H x D) Weight: 9 kg (net, w/ resistive touch)
- Watchdog timer AP, support Wincomm Remote Device Management software (WRDM)

### Summary

Wincomm's engineering expertise upgrade our WTP-8865-15 to IP67 enclosure protection with unique air-breathing design together with fanless operation, this high protection industrial panel PC is now an ideal solution for most demanding applications of harsh & hygienic environments.

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If you have any questions or requests, please feel free to contact our Sales representatives at

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