

Seamless monitoring with anesthesia workstations in operating rooms



Industry: Anesthesia system at hospital

Region: Europe

Background

Operating rooms (OR) require seamless monitoring between computing platforms and critical medical machinery—such as anesthesia workstations and monitoring systems—to ensure precise patient management and real-time electronic medical record (EMR) synchronization.

In modern hospital deployments across Europe, Wincomm's Medical All-In-One (AIO) Panel PCs were selected for anesthesia device integration in high-standard surgical environments:

- **Hospital in France:** Integrated Wincomm **WMP-22P-IP54** (21.5") and **WMP-24P-IP54** (23.8") medical panel PCs, the systems are monitoring patients' information to anesthesia machines via mounting arms or mounted on point-of-use powered carts designed for flexible deployment between operating theaters.
- **Hospital in Finland:** Integrated Wincomm **WMP-24P-IP54** (23.8") series panel PCs be monitoring the anesthesia equipment inside hospital operating rooms.

Hospital Pain Points

Operating rooms present strict operational, hygienic, and technical challenges for medical-grade computing equipment:

- **Rigorous Hygiene & Fluid Ingress Risks:** Operating rooms are subject to aggressive chemical disinfectants, fluid splashes, and airborne contaminants. Standard computing hardware lacks adequate ingress protection, risking system failure during liquid exposure or cleaning.
- **Complex Peripheral Integration:** Anesthesia devices require reliable high-speed data connections (USB, COM) to transfer patient vital signs and gas monitoring data directly to the medical PC without signal interference or data loss.
- **Sterile Touch & Workflow Efficiency:** Medical staff operating in surgical gloves require responsive, easy-to-clean multi-touch screens that can withstand frequent sterilization without degrading touch accuracy.
- **Space Limitations & Mounting Versatility:** Space around the patient bed is tightly constrained. Hardware must support flexible VESA/GCX arm mounting or cart mounting while maintaining stable power connectivity.

Wincomm Solution

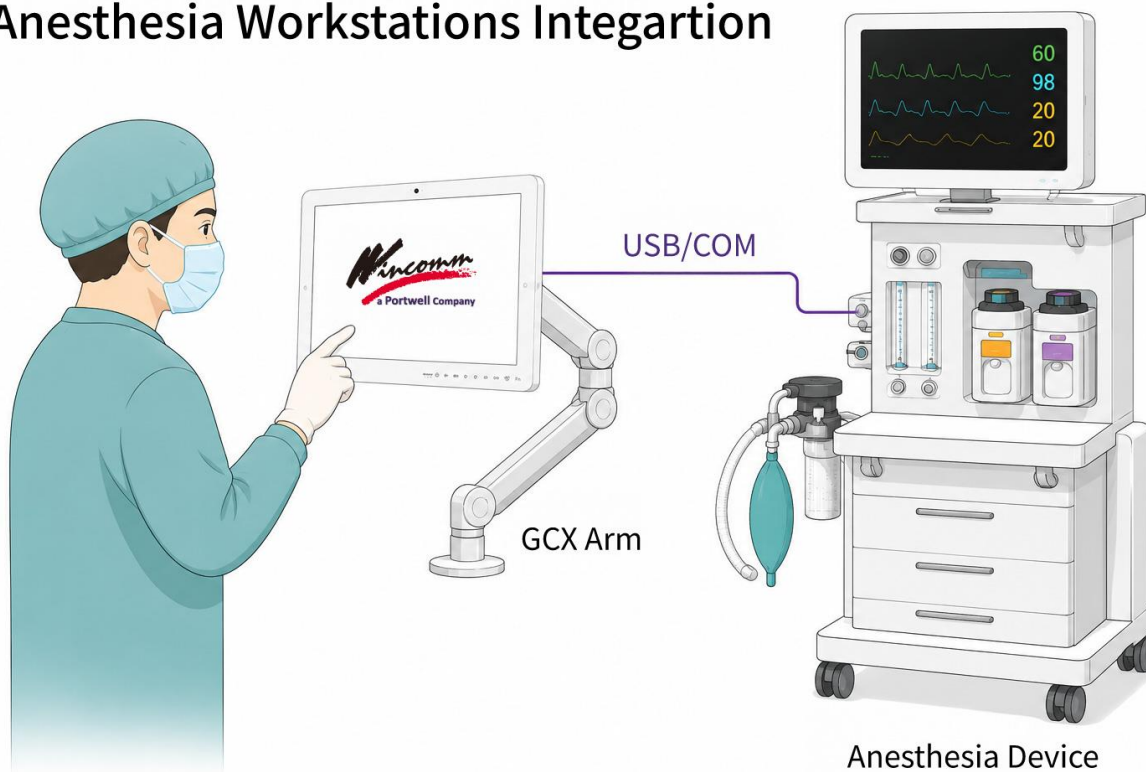
To meet the demanding operational standards of European hospitals, Wincomm delivered its specialized **WMP-22P-IP54** and **WMP-24P-IP54** Medical AIO Series:

Key Solution Highlights

- **IP54 / IP65 Waterproof & Dustproof Enclosures:**
 - The **WMP-2xP-IP54** series features rear system IP54 protection with an IP65 front bezel, safeguarding internal components against fluid intrusion during surgical procedures and liquid spray-downs during infection control routines.
 - Anti-bacterial (MRSA-resistant) plastic housing prevents bacterial proliferation on surfaces.
- **Seamless Anesthesia Device Interfacing:**
 - Equipped with medical-grade isolated and standard **USB and COM ports**, facilitating stable, interference-free real-time data communication between the anesthesia machine and hospital information networks.
- **Optimized OR Ergonomics & Touch Controls:**
 - Features a P-Cap (Projected Capacitive) multi-touch display supporting a dedicated "**Clean Me**" **hotkey**, allowing nurses and anesthetists to freeze the touch screen for easy wiping down without disrupting open applications or turning off the unit.
- **Flexible Deployment Configurations:**
 - **Arm & Cart Compatibility:** Easily mounted on the arms directly to anesthesia frames or on point-of-use carts for rotation between operating rooms (Clinique Saint Jean).

- **Medical Safety Compliance:** Fully compliant with IEC/EN 60601-1 medical safety standards, ensuring low electromagnetic emissions and high surge isolation within critical healthcare zones.

Anesthesia Workstations Integration



Wincomm's WMP-xxP-IP54 brings the display quality, ruggedness, reliability, medical certifications, and expansion needed to fully enable seamless integration anesthesia workstation in operating room, and makes it the best solution to benefits professional users in the hospitals.

For more product information, please visit the Wincomm website at

<https://www.wincommusa.com/shop/category/point-of-care-medical-all-in-one-pc-37>