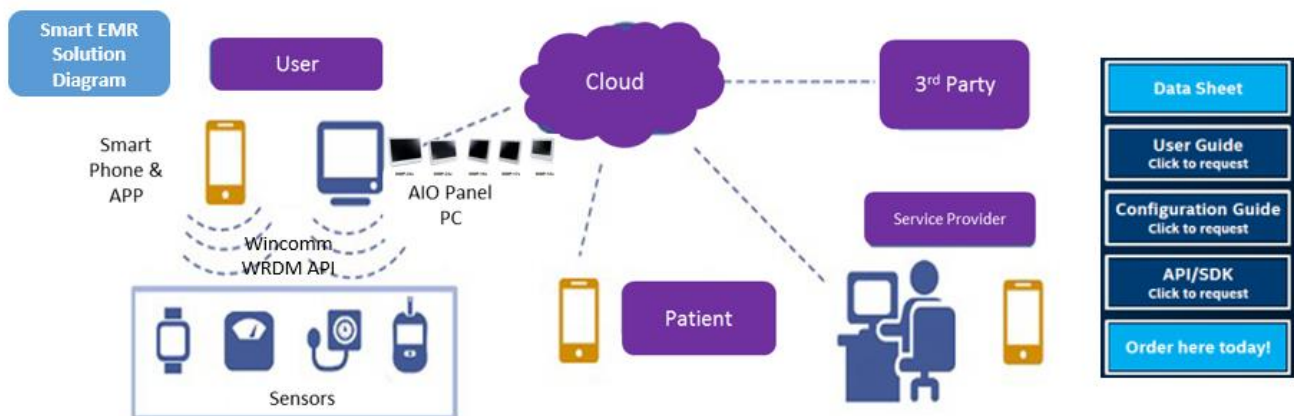# Wincomm Application Notes

Smart EMR Solution

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 this design capability, Wincomm innovates its IoT solutions to integrate with popular EMR software to provide our end users a smart EMR, electronic medical record, solutions to turn hospital service intelligent.
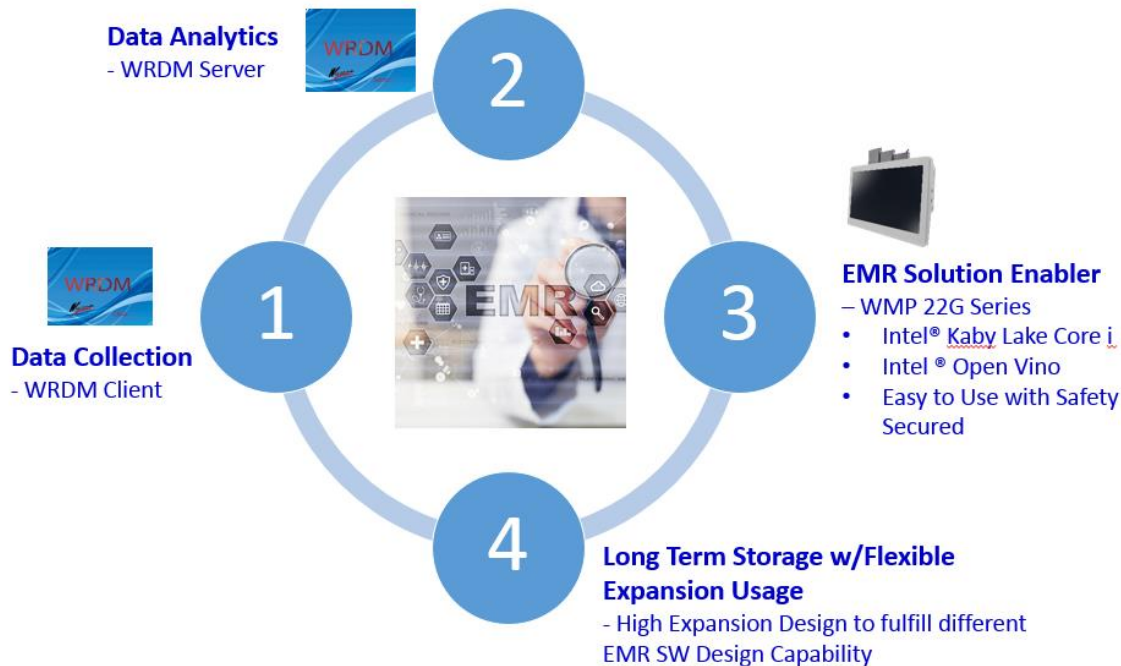

Solution Overview

- **Mobile Medical EMR Enabler Solutions** suit for versatile EMR usage, with highly reliable, expansion capability and medical cert. security.
- OSD Magm, easy to engage web-baes AP.
- Reliable integrated sensor test proof application-ready platform

Value Prop

- Sui for healthcare professional usage to solve customized ME expansion integration problem to maintain smart healthcare application with scalability HW/SW platform.
- Support test plan toward highly integrated medical EMR solution ready, and most projects with localized technical support to increase customer experience.

Solution Components

- Intel component
- **Smart EMR Solution Enabler** with Intel Kaby Lake CPU + Open Vino Tools
- Cloud: **WRDM Server** under Microsoft Azure
- OS Support: **WRDM Client** on Microsoft Windows

With more than 20 years on medical panel pc design experiences which comes with better understanding of medical employee user behaviors, WMP-22G series is designed to be used in medical environment, featuring the high performance, fanless with highest medical certified to best suit for smart EMR solution. 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. Our users have a higher protection level in their health and safety from the electromagnetic waves while using the WMP-22G series.

In above figure smart EMR solution, Wincomm helps our customers to build EMR applications on our powerful panel PC platform, Intel ® Kaby Lake Core i with OpenVino tools for A.I. data training, equipped with our WRDM software, to receive data log from remote sensors, such as webcam, ECG, ultrasound and other equipment.   These data log would be uploaded to hospital internal cloud for processing onsite mobile EMR updated and tracking history while the doctor needs.   Within this smart EMR solution setting, it could enable most doctors and nursing check the EMR history with patient care more efficiency.

1. Data Collection
    Wincomm provide WRDM client API/sample code under Window OS for our clients to build the connection with all remote device management to gather data for EMR applications.

2. Data Analytics
    Wincomm supports most of clients to leverage local or private cloud server to set up the environment for data analytics to speed up different data flow on time and on demand for tracking.

3. EMR Solution Enabler
    To support various EMR applications, Wincomm innovated our computing platform based on Intel ® Kaby Lake to Skylake Core i with Open Vino toolkits, and it would perfectly help to make the medical EMR data/imaging flow process more efficient.   With experienced with our worldwide partners, Wincomm designed our computing platform with highly expansion capability which is mainly difference compared to our competitors, to win most of our clients trust on special EMR solution build.

4. Long Term Storage with Flexible Expansion Usage
   Build the edge computing service and cloud platform, Wincomm supports our clients to set up a strong service model to serve on intelligent hospital needs, secured with long term storage and it is able to update on future expansion demand for sure.

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, large size all in one digital signage system, 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, digital signage / infotainment Kiosk, and medical computing.

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   For more product information please visit the website. http://www.wincommusa.com