Seamless Connectivity For Hospitals

Solution Brief | Healthcare Solutions

Seamless Network For Efficiency
The Automated Guided Vehicles (AGVs) depends on a tightly knit wireless network to guide itself from one point to another. Automating manual labor of material handling to ease human resources

Application
Automating manual labor through the use of robots guided by wireless networks

Solution
Motorola’s wireless access point & Cambium PTP provide seamless wireless network to guide the robots

Benefits
Scalable & reliable wireless network that grows with your requirement

Our Selected Customer

Together with our partner, we designed and deployed wireless network for hospitals in Singapore. The solution requires ROOTS to provide the Wireless LAN (WiFi) communications for the hospital’s TransCar AGV system to transport meals to patients in the ward.

Contact us to find out more!

For more information about ROOTS Communications Pte Ltd, please visit www.rootscmm.com
Constant Communication Anytime, Anywhere
The challenges faced is how to provide enough wireless and seamless coverage for Wireless LAN (WiFi) so as to function with all Transcar vehicles.

In addition, constant communication with Hospital’s TransCar Management System central computer must be maintained to monitor the vehicles’ locations and control traffic. Care must be taken to prevent radio frequency interference with the sensitive medical equipment.

In the past, the Transcar’s inter-network communication uses Infrared technology (IR).

However, the IR technology has many limitations. And it was an attempt for Transcar to deploy Wireless AP for each floor and inside lift shaft; we have Cambium PTP 230 to complete the link to ensure seamless communication for Transcar.

The AGVs are still connected to the wireless network - even in enclosed area such as lifts.

This is made possible by our Point-to-Point Wireless Bridge.

Cambium PTP 230
Point-to-Point Wireless Bridge
- Dual band for robust performance & reliability
- GPS Synchronization to reduce frequency interference

Motorola AP621
Cost Efficient 802.11n Access Point
- Low cost with superior receive and transmit sensitivity
- Designed for rapid deployment with small form factor for flexible installation

Deploy reliable wireless network solution today!
enquiry@rootscomm.com or 6283 8500

Contact Us Now