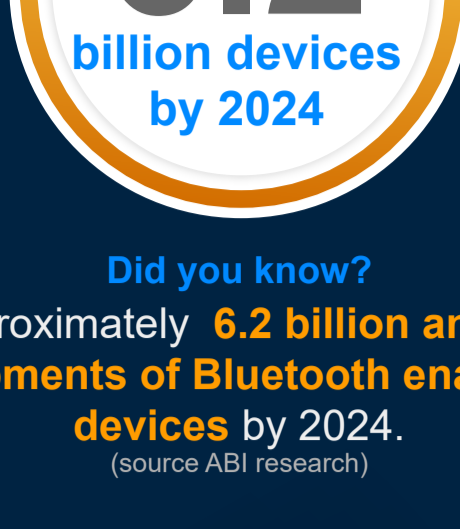


# CONNECTING TODAY'S HOSPITALS USING **BLUETOOTH®** TECHNOLOGY

Smart medical devices and IoT applications in healthcare make it easy for medical staff to track changes in patient health, administer medications correctly and on time as well as streamline operations to reduce costs and inefficiencies. Today's connected hospitals need a reliable wireless technology and it's no surprise that Bluetooth is at the forefront of healthcare technology.



**Did you know?**

In 2020, there were approximately **4.4 billion annual shipments of Bluetooth enabled devices.**

(source ABI research)

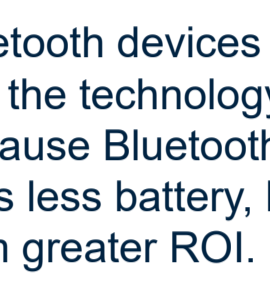
**Did you know?**

Approximately **6.2 billion annual shipments of Bluetooth enabled devices** by 2024.

(source ABI research)

## 4 KEY BENEFITS

of Using **Bluetooth** Technology in Hospitals



### LOW POWER, LONG BATTERY LIFE

The ultra-low power functionality of Bluetooth allows small sensors to run off tiny batteries for months, even years. With Bluetooth, hospital equipment and medical devices such as glucose monitors, blood pressure monitors and body temperature sensors can remain connected without having to worry about battery life.

### LOW COST

Bluetooth devices are available at a very low cost and the technology is cost-effective to implement. Because Bluetooth requires minimal power and uses less battery, healthcare organizations benefit from greater ROI.



### SECURE

A hospital requires the highest level of security to safeguard patient health information. To ensure that all wireless medical devices meet strict government security standards, Bluetooth offers advanced AES 128-bit encryption to meet these regulations and remain compliant. Bluetooth devices also use frequency hopping to reduce interference from other wireless devices, whether they are Bluetooth or not, allowing for more secure communications

### UNIVERSAL

Bluetooth is the standard wireless protocol, which means that it is compatible with nearly any wireless device. In fact, the vast majority of smart medical devices use Bluetooth technology. The ability to connect various devices to each other, regardless of model or brand allows for a higher level of compatibility. This is incredibly beneficial for hospitals using countless medical devices that need to connect to each other.



## Different Applications BLE Technology in Healthcare

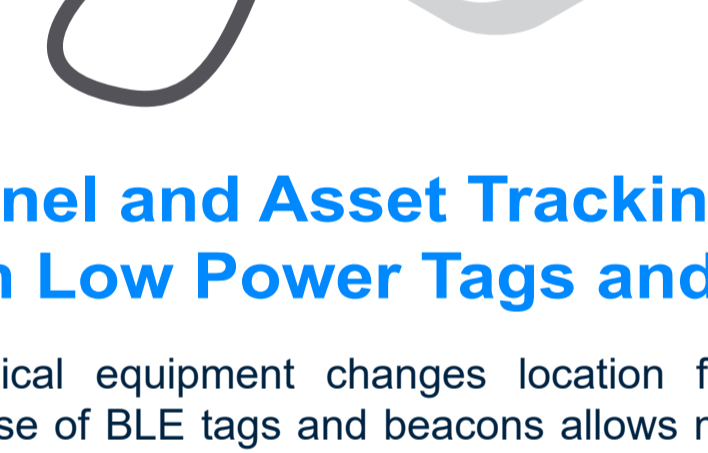
### In Facility: Continuous Vital Sign Monitoring in Hospitals

Wearable medical sensors using BLE are being used in hospitals to continuously monitor a patient's body temperature, respiratory rate, heart rate, glucose levels and other important vital signs. These sensors collect, store and measure a patient's vitals allowing medical teams to continuously keep track of a patient's condition.



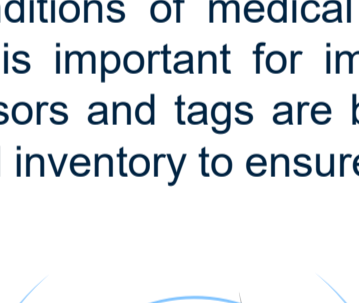
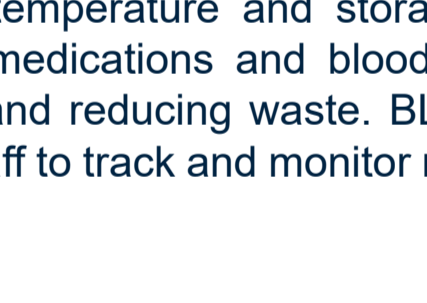
### Keeping Patients Connected at Home

Patients can now monitor their vital signs using any BLE medical device such as a heart rate monitor, blood glucose monitor or blood pressure monitor from the comfort of their home. The patient's data is sent wirelessly to their primary caregiver for continuous monitoring and analysis.



### Personnel and Asset Tracking using Bluetooth Low Power Tags and Beacons

In a hospital, medical equipment changes location frequently and often unexpectedly. The use of BLE tags and beacons allows medical staff to easily track the location of assets so medical teams can access equipment quickly and efficiently.



### Ensuring Vaccines and Medications are Safe

Detecting temperature and storage conditions of medical inventory such as vaccines, medications and blood bags is important for improving healthcare efficiency and reducing waste. BLE sensors and tags are being used to allow medical staff to track and monitor medical inventory to ensure it's safe for patient use.



## KEEPING IT ALL CONNECTED WITH CASSIA'S GATEWAYS and IoT ACCESS CONTROLLER



## Why leading healthcare solution providers choose **Cassia Networks**

- Scalable, Flexible, Secure
- Easy to Manage and Deploy
- Cost-Effective Wireless Solution
- Long Range Multiple Device Connectivity
- Seamless Bluetooth Roaming and Locating Support