

# Edge Computing: Hospitals



Edge computing has found several applications within the healthcare industry, especially in hospitals. This technology offers unmatched real-time data processing, low-latency communication, and privacy. Edge computing is crucial in hospitals as it enables immediate patient monitoring, remote diagnostics, and surgical assistance - enhancing medical decision-making and response times.

*“By processing sensitive data locally, hospitals ensure patient privacy and compliance with regulations. The technology also optimizes resource management, improves operational efficiency, and supports seamless telemedicine, ultimately elevating the quality of patient care”*



## Specific Use Cases

### Real-time Patient Monitoring and Alerts

Edge computing enables hospitals to process vital signs and patient data from wearable devices and sensors faster and eliminates cloud downtime (which can cause unintentional delays).

This immediate data processing allows healthcare providers to receive instant alerts and notifications if a patient's condition worsens, facilitating timely intervention and reducing response times.

Overall, real-time patient monitoring provides better reassurance to patients and makes healthcare providers more reliable.

### Remote Diagnostics with Imaging

Edge computing powers on-site processing of medical imaging data, such as X-rays and MRIs. It enables radiologists and specialists to remotely access and analyze images quickly without requiring large data transfers. Fast and accurate remote diagnostics help speed up treatment plans and consultations, especially in critical cases.

### Predictive Maintenance for Medical Equipment

Edge computing monitors the performance of medical equipment like ventilators, MRI machines, and infusion pumps in real time. By analyzing operational data locally, hospitals can predict equipment failures or maintenance needs before they happen.

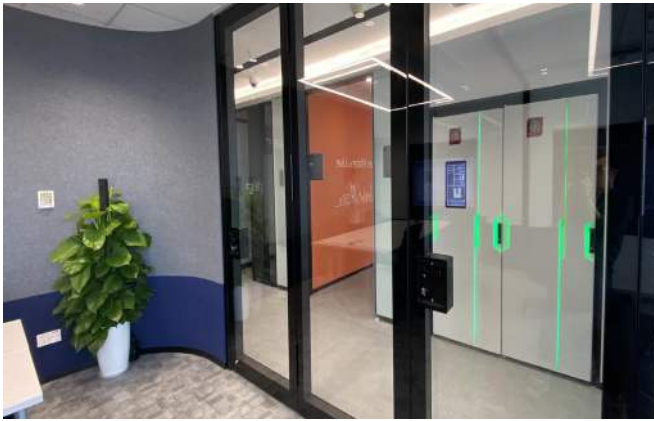
This proactive approach minimizes downtime, optimizes resource allocation, and ensures crucial equipment is always available for patient care - a better patient experience and reduced risk of profit loss for hospitals.

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## Take Your Medical Services to the Next Level

Modular Data Centers and edge computing work side-by-side to provide hospitals and health centers with the benefits above. By incorporating modular data centers and edge computing in your hospital, you'll have an IT infrastructure that will boost your patient-care services to be on par with the leading hospitals and medical facilities today.

Modular data centers require significantly less space and power. That means this upgrade will have minimal to zero disturbance in your daily operations. Provide better care while increasing your profits through the efficiency and dependability of Modular Data Centers now.



5356 Clayton Rd, Suite 101C  
Concord, CA 94521-3200  
(800) 394-3008  
sales@andcable.com

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Since 1989 AnD Cable Products' innovation and passion for problem solving have enabled more meaningful connections between companies' business goals and their marketplace success. AnD Cable Products creates a leading-edge physical layer, providing network infrastructure solutions for enterprise-wide environments. Headquartered in Concord, CA USA, our proven reputation for quality and intelligent design ideally positions us to promote your business growth in a connected world.