

AI Analytics at the Patient Edge

5G Patient Digital Twin

SymptomTrace's 5G Patient Digital Twin solution transforms chronic disease management by enabling continuous, personalized care at the patient edge. Using non-invasive sensors and real-time analytics, it captures vital signs, mobility patterns, and behavioral data to create a dynamic digital twin for each patient. Unlike traditional episodic care, the solution enables proactive intervention by detecting risks such as falls or disease progression early, improving outcomes and reducing healthcare costs.

Built on Intel® Core™ Ultra and Intel® Xeon® processors with integrated CPU, GPU, and NPU acceleration, and optimized with the OpenVINO™ toolkit and Deep Learning Streamer (DL Streamer), the platform delivers efficient edge inference, secure data processing, and scalable AI model deployment. With Intel® Software Guard Extensions (Intel® SGX) for secure enclaves and media acceleration for efficient data handling, healthcare providers gain real-time insights, privacy-first monitoring, and the ability to scale personalized care from hospital to home environments.



Key Intel-Enabled Features



Secure
Edge Data
Protection



Efficient
Data
Management



Scalable AI
Model
Training



Reliable
Home
Deployment

Accelerate Business Transformation with Optimized, Ready-to-Deploy, Intel-Powered AI Partner Solution

- Intel® SGX and Secure Boot protect digital twins from tampering and access
- Intel® Quick Sync Video compresses data streams, reducing bandwidth and costs
- Intel® Xeon® with Intel® Advanced Matrix Extensions enable scalable AI training across hospital systems
- Intel® Core™ Ultra processors enable silent, reliable AI at-home patient monitoring

Intel Products and Technologies

- [Intel® Core™ Ultra Processors](#)
- [Intel® Xeon® Processors](#)
- [OpenVINO™ toolkit](#)
- [Intel® Software Guard Extensions \(Intel® SGX\)](#)
- [Deep Learning Streamer \(DL Streamer\)](#)
- [Intel® Arc™ Graphics](#)

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*Edge AI digital twins enable secure, real-time patient insights for **proactive, personalized care anywhere***

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Country/Geo: Asia Pacific, Japan, Australia & New Zealand

Edge Verticals: Health & Life Sciences

Edge Use Cases: Emergency Response; Virtual Care; Image Analysis

Learn more:

- [SymptomTrace Website](#)