

wellvii Success Story

Redefining Remote Patient Monitoring: Wellvii's LTE-M-Enabled Blood Pressure Monitor



We're all driven to protect the people we love and keep them safe — especially when they can't protect themselves.



Janice is 67. Two years ago, she had a stroke that left her with cognitive deficits and multiple physical disabilities. Every morning, Janice's daughter struggles to take her mother's blood pressure and manually log the readings. They only get to review the information with the doctor a few times a year.



Lawrence is a 45-year-old professional who leads a busy life balancing work and family. He has recently been diagnosed with hypertension and needs to monitor his blood pressure regularly. Traditional devices are cumbersome and time-consuming for his hectic schedule — and he doesn't have time to visit a health clinic for weekly or daily monitoring.

Many people — from elderly parents and people with cognitive impairments or disabilities to busy professionals and fitness enthusiasts — can benefit from consistent health monitoring. Often, trends in vital signs like blood pressure can indicate larger health issues, and catching the signs early can save lives.

Overly complex medical and communication devices can be confusing and difficult to use — which means that people simply don't use them.



LTE Simplifies Connectivity for Consistent Monitoring

When Mark Khachaturian began working on finger-based blood pressure measurements for Wellvii, he knew that he needed a solution that would be easy for everyone — with a highly reliable connection to healthcare systems and providers.

And, because Wellvii’s devices are small, he also needed a chipset that wouldn’t add unnecessary bulk.

Sony’s Altair ALT1250 chipset was the ideal choice for consistent, reliable connectivity, very low power, ease-of-use, small form-factor, and dependable technology.

Wellvii has now developed the world’s smallest finger-based blood pressure monitoring device using Sony’s Altair chipset with LTE-M & NB-IoT cellular technology to communicate blood pressure and other vital measurement data directly to clinics and caregivers.

The LTE-M & NB-IoT cellular-connected design offers simple setup and doesn’t require a smartphone in the middle to send the data. Patients simply press a button and data is seamlessly sent to healthcare providers and caregivers — without any device pairing required.

The ALT1250 means that Wellvii can connect with Electronic Medical Record (EMR) systems, allowing doctors to view blood pressure trends for each patient. Patients can also see their readings through a dedicated smartphone app.

Wellvii’s HIPAA and FDA-approved solution provides a comprehensive overview of a user’s well-being by also monitoring heart rate, blood oxygen, respiration, temperature, and activity level.

Advantages of LTE-M over Bluetooth Low Energy

By using Sony’s Altair ALT1250LTE chipset rather than Bluetooth Low Energy (BLE) connectivity, Wellvii can offer patients many benefits:



Seamless out-of-the-box operation with no complex setup or pairing required



No dependency on smartphones, gateways or user data plans



Reliable connectivity even if smartphones are out of range or have dead batteries



Direct communication to the cloud avoids data passing through insecure apps



Simpler for elderly and cognitively impaired patients who struggle with technology

Wellvii specifically selected LTE to create an easy, hassle-free device for all patients — including vulnerable patient populations who cannot reliably operate traditional Bluetooth-based medical devices.



Choosing the Right Connectivity for Accessible Remote Patient Monitoring

Wellvii's innovative LTE-enabled blood pressure monitor represents a breakthrough in accessible remote patient monitoring for anyone who needs it. And thanks to the simplicity of the device, it's even appropriate for elderly individuals, those with cognitive impairments, and other populations.

By leveraging the advantages of Sony's Altair ALT1250 with LTE-M and NB-IoT connectivity — seamless operation, no complex setup, reliable connectivity, and direct cloud communication — Wellvii has created a hassle-free solution tailored to the unique needs of patients who cannot reliably operate traditional Bluetooth-based devices.

Sony's Altair ALT-1250 chipset makes it possible for Wellvii to overcome long-standing accessibility challenges, expanding the reach and effectiveness of remote health monitoring for those who need it most.

