

Clinicians diagnose diseases in less than 60 seconds with trailblazing medical imaging

"Healthcare providers across the world now have access to our cutting-edge CT scanner technology for faster diagnoses through Dell Technologies OEM Solutions."

Dr. ZengKai

Technology Director,
Anke Medical Equipment Technology (Anke)

Situation Analysis

Innovative and pioneering medical solutions.

Anke is a leading manufacturer of medical equipment in China. Launched in 1986, the company built the country's first magnetic resonance imaging (MRI) system and is driving the evolution of computerized tomography (CT) scanners and surgical equipment navigation systems.

Transforming diagnoses capabilities with CT scanners.

CT scanners have been one of the most important medical developments in recent decades. It gained co-inventor Sir Godfrey N Hounsfield the Nobel Prize in Physiology and Medicine in 1979. With the development of CT scanners, clinicians could finally obtain unobstructed views of patients' internal anatomies with ease and provide more accurate diagnoses than with X-rays.

Ultra-definition images mean treatment pathways start sooner.

The increase in computer processing power and the evolution of artificial intelligence (AI) has boosted the capabilities of CT scanners. With the detail of scans measured in data "slices," CT scanners have increased from 16 slices per scan to 256 using AI. This in turn has enabled ultra-high-definition images

across large areas of the body faster than before. This leap is transforming CT scanner effectiveness in saving lives — providing clinicians with ever-improving insight into the anatomies of patients to make earlier diagnoses.

When Anke began the development of its 256-slice AI-powered premium ANATOM S800 scanner, it knew it couldn't do it alone. The company needed support from an original equipment manufacturer (OEM) to help develop the technology and launch it on a global stage. A key element was acquiring an OEM workstation solution that clinicians could use to analyze CT scanner images and procuring the supply chain and services to support a global customer base.

Design Partnership

OEM experience and expertise in healthcare accelerate development.

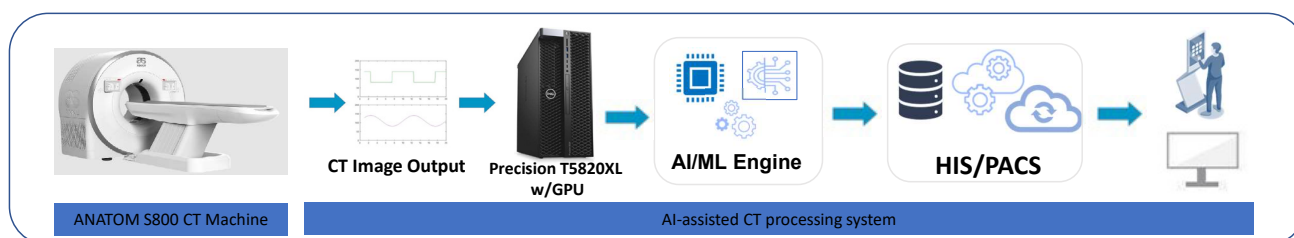
To take the ANATOM S800 from the drawing board to hospital campuses around the world, Anke partnered with Dell Technologies OEM Solutions. “We learned that Dell Technologies OEM Solutions had a rich history in the medical equipment industry, providing strong technical support in this area,” says Dr. ZengKai, technology director at Anke Medical Equipment Technology (Anke).

Establishing a global supply chain to drive production.

Anke enabled the launch of the ANATOM S800 well ahead of schedule with support from Dell Technologies OEM Solutions. Support included:

- Engineering expertise on customizing Dell Precision T5820XL workstations, including specialized GPU, Ethernet cards and Windows 10 image, which saved months of development
- Assistance with the certification and approval of ANATOM S800 for overseas markets

- Supply chain security worldwide, guaranteeing the quality and quantity of equipment
- Technology lifecycle management with early notification of any design changes
- Global services support on workstation products, including part replacement within 48 hours instead of weeks as with previous provider



Outcome

Increasing diagnostic accuracy by 100%.

By using ANATOM S800, clinicians can identify conditions, such as respiratory disease, in less than 60 seconds, enabling them to develop treatment pathways quicker than with previous generation CT scanners. “Our ANATOM S800, supported by Dell Technologies OEM Solutions, offers ultra-high resolution and image processing technology based on AI to double diagnostic accuracy,” says Dr. ZengKai.

Maximizing the number of scans conducted.

Furthermore, the CT scanners are increasing efficiency within healthcare facilities. Staff can continue to operate the CT scanners remotely, even during periods of restricted contact between clinicians and patients. Plus, the ANATOM S800 is backed with responsive Dell Technologies ProSupport Plus wherever the scanners are located to help prevent downtime. To ensure a continuously high level of support, a Dell Technologies Service Account Manager works with Anke to review service delivery and escalate technical inquiries rapidly among Dell Technologies engineers.

Ensuring a brighter future for patients.

For Anke, ANATOM S800 marks a leap forward in CT scanner development that will allow the technology to evolve more quickly, bringing further rapid improvements to healthcare. The improved CT scanners can be developed faster thanks to the assistance of Dell Technologies OEM Solutions in areas such as engineering, certification, supply chain and services support. Concludes Dr. ZengKai, “With Dell Technologies OEM Solutions by our side, we can dedicate greater resource to product innovation for faster diagnosis of many life-threatening diseases.”

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