

## Our Client is One of China's Largest Medical Equipment Manufacturers

Our Client dominates the healthcare sector worldwide with their innovation technology in the development and production of high definition medical diagnostic solutions of the trolley and portable ultrasound systems and endoscopy systems.

With several R&D centers in China, Japan and in the United States of America, our Client is committed to provide a more effective and accessible healthcare solutions to the world through their continuous research and development of advanced technology.

In recent years, our Client has been awarded with the "China Patent Award" in the Endoscopy Diagnosis Field by the China National Intellectual Property Administration for its state-of-art technology. Amongst other awards, they are also accredited with the "Product Innovation in the Electronic Endoscopy Market" by Frost & Sullivan, one of the world's renowned research and consulting firm for our Client's constant innovation and breakthrough in product development.

Today, our Client has expanded to 32 branch offices across major cities in China with over 2,000 employees and is a public-listed company.

For confidentiality reasons, we are unable to disclose our Client's name in this success story.



# ENHANCING DIAGNOSTIC ACCURACY IN THE MEDICAL INDUSTRY WITH ERNI

## Our Client's Application: Medical Ultrasound Equipment

A medical ultrasound equipment is a diagnostic imaging technique that uses high frequency sound waves to reflect the human body's internal organs and soft tissues to create an image on the display screen. It interprets clear and gives real-time accurate information as doctors commonly use them to diagnosis the causes of pain, swelling and infection in the body's organs and examine the fetal development in pregnant women

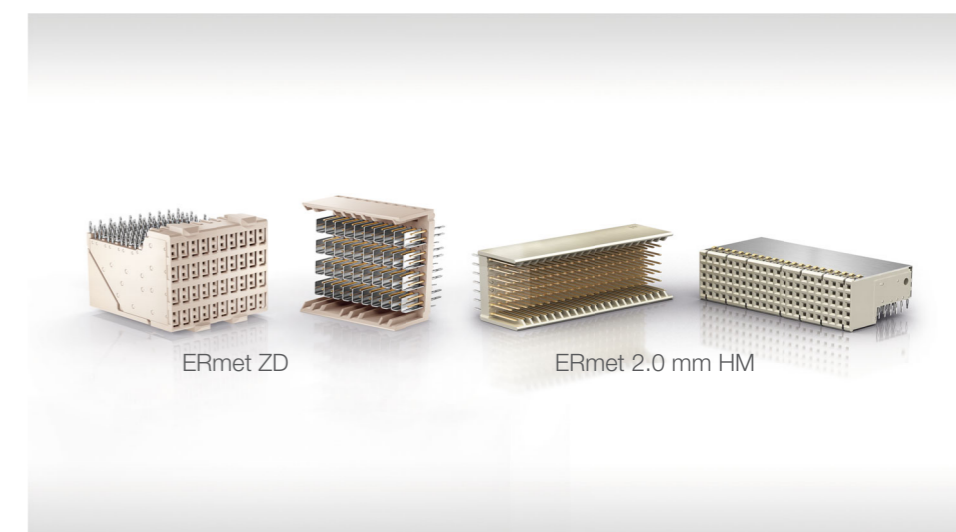


Inside the equipment, reliable and secure connections to transmit power and high data rates in the backplane system are vital to control the communication between all connected boards.

Backed with years of experience and vast knowledge in this industry, we supported our Client in their backplane design and related simulation model to speed up the process, and helped to improve the overall capabilities by recommending the right type of connectors required - high speed connectors with data transmission rates of 12G to 15G with press fit technology to transmit consistent and reliable signals.

## Our Solution

The ERmet ZD connector allows data rates up to 10 Gbit/s. The robust and high-performance connectors are designed to use in conjunction with the ERmet 2.0 mm HM connectors. It shares the chassis and board design features along with common layout references. The connector meets the electrical performance requirements of high speed, low voltage differential signaling. Download ERmet ZD connectors application note at [www.erni.com/ERmet ZD](http://www.erni.com/ERmet ZD)



ERmet 2.0 mm HM are high-density board to backplane connectors. The connector enables almost every possible module configuration in a board-backplane connection system and board-to-board. The complete line of complementary accessories to include stamped power connectors, colour coded coding keys, latching shrouds, ground return shields, high frequency and high power contacts. Download ERmet 2.0 mm HM connectors simulation model at [www.erni.com/ERmet 2.0 mm HM](http://www.erni.com/ERmet 2.0 mm HM)

ERmet ZD connector and ERmet 2.0 mm HM provide solution on press fit technology for board to board and through hole technology.

Other key features on ERmet connectors:

- For hot-swap applications
- Vibration and heat resistant
- Dual sided female contacts

At ERNI, we support our clients through their entire developmental journey - from the prototype design to their finished product. Our class-leading experience and vast knowledge in the medical industry gives us a competitive edge over other manufacturers. It is no coincidence that our clients hold ERNI in high regard as an innovative leader and supplier of high-quality electronic connectors worldwide.

Contact us today at [info.eah@erni.com](mailto:info.eah@erni.com) if you wish to learn how ERNI can help you!