DT Research Unveils 14th Gen Healthcare Computing Solutions Purpose-built to Deliver Care in Diverse Medical Settings

Medical-Cart Computers and AIO Medical Computers Engineered to Optimize Point-of-Care in Field Medicine, Telehealth and Constrained Medical Spaces

SAN JOSE, Calif., November 18, 2024 – [DT Research](#), the leading designer and manufacturer of purpose-built computing solutions for vertical markets, today introduced the availability of the 14th generation of processors for the 582TM and 584TM medical-cart computers and the 502TF and 504TF medical All-in-One (AIO) computers, which are purpose-built to help deliver efficient point-of-care across a diverse spectrum of healthcare environments. With the upgrade of these innovative products, DT Research continues to expand the industry's most comprehensive array of purpose-built medical computing solutions.

In addition to the boost in processing power, the 14th generation CPU also brings an upgrade to USB 3.2, providing years of expansion and growth.

DT Research has transformed medical-cart computing with the 582TM and 584TM, an ideal mobile solution for space-constrained healthcare environments. The sleek design and comprehensive feature set of the 502TF and 504TF medical AIO computers allow seamless integration into various point-of-care scenarios, empowering health professionals to monitor, record, and manage patient data effortlessly.

DT Research will showcase these medical computing solutions at the Silicon Valley [MEDevice](#) conference from November 20-21, 2024 in booth 824.

"Through visionary design and cutting-edge technologies, our goal is to enhance point-of-care technology solutions within hospitals, clinics, and care facilities, while also extending our mobile solutions beyond conventional healthcare settings, broadening the scope of places where patient care can be delivered," said Daw Tsai, President of DT Research. "We believe purpose-built medical computing solutions not only streamline operations but also elevate the standard of patient care, creating more accessible and patient-centric healthcare experiences."

582TM and 584TM Medical-Cart Computers

The 582TM and 584TM medical-cart computers are an ideal solution for mobile and space-constrained point-of-care. These sleek computing solutions can be mounted on a medical cart for wireless patient care or used stationary with standard VESA mounting compatibility for the ultimate flexibility in placement. The 582TM and 584TM offer a choice between a 22-inch or 24-inch high-resolution touchscreen display that facilitates at-a-glance examinations, ensuring streamlined workflows in hospitals and clinics. Built-in WiFi and data-capture modules enhance the point-of-care process, powered by a robust Intel® Core™ Ultra processor running Microsoft® Windows® 11 IoT Enterprise or Ubuntu OS.

Certified to meet ANSI/AAMI ES60601-1 standards and IP65-rated front panel, the 582TM and 584TM are purpose-built for healthcare providers. A fanless design ensures quiet operation and minimal maintenance with an antimicrobial enclosure to promote a hygienic environment. Hot-swappable batteries enable seamless patient data management without interruption during battery replacement. The incorporation of an IR camera, NFC/RFID reader, and smart card/CAC reader provides a sophisticated solution for healthcare professionals.

502TF and 504TF Medical All-in-One Computers

An elegant space-saving design enables the 502TF and 504TF medical All-in-One (AIO) computers to easily fit into a broad range of telemedicine and point-of-care scenarios. The integrated LCD systems offer a choice of a 22-inch or 24-inch touchscreen. Equipped with built-in WiFi and Bluetooth connectivity, health professionals can effortlessly monitor, record, and manage patient data. Standard VESA mounting compatibility simplifies installation to meet the dynamic needs of healthcare professionals.

Powered by the high-performance Intel® Core™ i processor and running Microsoft® Windows® 11 IoT Enterprise or Ubuntu OS, these all-in-one systems ensure durability within healthcare environments with an IP65-rated front panel and antimicrobial enclosure. With a 5M front camera, smart card/CAC reader, NFC/RFID reader (504TF only), and integrated UPS battery, these systems offer a comprehensive solution for modern healthcare settings. Certified to meet ANSI/AAMI ES60601-1, IEC60601-1, and IEC60601-1-2 standards brings the highest requirements for safety and electromagnetic compatibility to the medical field.

Availability
The 582TM and 584TM medical-cart computers and the 502TF and 504TF medical AIO computers are immediately available from DT Research's authorized resellers and partners.

About DT Research
DT Research™, an early Mobile Tablet pioneer and leading designer and manufacturer of purpose-built computing systems for vertical markets, delivers the world's most comprehensive line of Rugged and GNSS Tablets, Mobile POS Tablets, Convertible Laptops and Medical Computing Solutions. DT Research products are uniquely designed with customizable built-in options assembled in California, providing customers with rapid time-to-market solutions that are TAA compliant. The DT Research family of products is based on embedded computing platforms that power secure, reliable and cost-effective computing. DT Research systems offer computing mobility within industrial and harsh environments through durable solutions with wireless connectivity, high-quality touch displays, and Windows®, Android, and Linux operating systems. More than 200 organizations across the globe rely on DT Research solutions in industries such as government, healthcare, hospitality, logistics, military, construction and warehousing. DT Research is headquartered in Silicon Valley, California. For more information, visit www.dtresearch.com and follow @dtresearch, #MilitaryTablets, #RuggedTablets and #MedicalTablets.

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