

K2353: Integrated Display for Medical Devices

This large, bright touch-screen is paired with a high performance PC in a compact, branded package. Appropriate for medical devices and other applications.

Performance Characteristics

All-in-one system features 15.6" resistive display. Computer built around COTS components and Intel® latest low-power, high-performance architecture.

Ergonomics:

Overall dimensions: 14.46" (367mm) W x 8.64" (219mm) H x 3.00" (76.2mm) D. I/o connections include 2 HDMI, 1 Serial, 1 VGA, 6 USB 2.0, 2 10/100 Ethernet.

Lifecycle:

Seven-year availability.

K2353



EmbedTek designs, invents, and manufactures computers, software, sensors, cameras, and displays for original equipment manufacturers. Our systems improve the quality of imaging in healthcare, simulation programs in the military, video analytics in security, and much more. Throw any challenge at us, from demanding environment and ergonomic requirements to High Level Assembly and nonstandard I/O. We'll evaluate it, carefully attack it, and solve it.

Product Realization: K2353



We engaged manufacturer of medical diagnostic devices at a critical point in the product lifecycle. They had been using standard laptop computers to interface their maturing product, but saw the need for an identifiable product DNA with fixed aesthetics and functional controls. They sought improved performance, but also a platform for future development.

Overall challenge:

Replace a standard laptop controller with a purpose-specific system that was smaller, more powerful, and offered an improved user experience.

Design:

Starting from the customer's 'blank slate,' we worked to create a set of design requirements for the proposed system. That was a collaborative exercise that involved guided questions about key product features and selling points. We needed to define the program parameters for the existing medical device, as well as future upgrades based on anticipated technology developments. These documents guided our engineering research efforts, and also suggested new opportunities to the customer's application development team in light of prospective performance options and capabilities.

Prototypes & Validation:

Multiple prototype units were created to validate system design and also provide user experience and usability information to the customer.

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