

ClearCube Technology & Motion Computing Offer Secure Tablet Client Solution

Hospitals and clinics today must balance two critical challenges: maximizing the value of their electronic medical records (EMR) at the point of care and safeguarding the privacy of their patient's data. This challenge is heightened at facilities that want to provide remote or mobile access to their EMR systems.

In many cases, healthcare providers are forced to compromise their IT investments and rely on paper-based records. Without access to EMRs at the point of care, clinicians risk losing vital patient data or introducing errors during the data entry process.

Even a network of PCs, laptops or other handheld devices that provide immediate EMR access risk noncompliance with federal HIPAA regulations through hardware theft or the unauthorized downloading/uploading of sensitive patient information. These security risks become more pronounced as the number of users and access points in a facility increase.

The ClearCube & Motion Computing Solution

ClearCube Technology and Motion Computing have developed a secure and lightweight solution for mobile computing that utilizes centrally located PC Blades and wireless Tablet Clients.

ClearCube PC Blades are standard Intel®-based computers packaged in a dense Blade form-factor and rack-mounted in a centralized data center. Each Tablet Client remotely connects to a PC Blade over a WiFi (IEEE 802.11 a/b/g) connection and uses the Remote Desktop Protocol (RDP) for video and peripheral redirection. The clipboard-sized Tablet Client combines the mobility of a slate client computer with the reliability of an embedded operating system to create a secure, wireless mobile access device.

The Tablet Client solution's unique management software—the ClearCube Management Suite (CMS)—enables IT personnel to remotely manage both users and assets from anywhere in the world. Regardless of how many hospitals or remote clinics a healthcare network controls, it can manage its entire deployment from a single location.

This combination of PC Blade and Tablet Client technologies represents the first “native” desktop experience for mobile users that maintains the high security level required in today's healthcare environment. The components are provided by the recognized leaders in PC Blade solutions (ClearCube Technology) and tablet computing (Motion Computing).



Benefits of a Tablet Client Solution

Hardened Security

Rather than saving information directly to the Tablet Client, the solution stores and processes all data and applications on the PC Blades. By removing all hard drives from public areas of traffic and securing them in a centralized data center, hospitals can ensure that only authorized personnel have physical access to the hardware. Furthermore, users cannot download confidential data or upload unwanted software since the Tablet Clients do not contain disk or CD drives.

An integrated biometric (fingerprint) reader on the Tablet Client prevents unauthorized users from accessing the device, and an embedded Trusted Platform Module (TPM) enables hardware-based data encryption. Even if the Tablet Client is lost or stolen, data and applications are not compromised since they actually reside on the PC Blade. The WiFi connections of the solution are guarded by WEP and WPA2 encryption, and a VPN-based security can be added for further protection. These advanced safeguards ensure that hospitals can easily comply with HIPAA regulations using a Tablet Client solution.

Improved Availability & Manageability

The ClearCube Management Suite (CMS) enables IT personnel to remotely manage the mobile solution from any location. In the event of a malfunction, a doctor's or nurse's Tablet Client can be dynamically reallocated to a spare PC Blade in seconds.

In addition to providing 99.9% availability in critical environments like ORs and ERs, the solution enables IT personnel to perform repairs, install software, upgrade BIOS and re-image PC Blades without ever entering a patient or exam room. Even if an administrator must physically touch every PC Blade for memory upgrades or hard drive replacements, he or she can do so directly in the data center without disrupting medical procedures.

Enhanced User and Patient Experience

The Tablet Client's unique slate form-factor and pen navigation makes it easy to capture, access and utilize patient records. Rather than taking notes in a patient's folder and entering the data into a computer at a later time, doctors and nurses can instantly prescribe, capture and manage patient data at the point of care. In addition to eliminating data entry errors, the Tablet Client also allows healthcare providers to spend more time with their patients.

Because the solution's PC Blades and associated fans are housed in a remote location, patients are not disrupted by PC-related noise or heat. Relocating the hardware to a remote data center also eliminates the risk of PC fans spreading contaminants throughout the facility. Furthermore, the Tablet Client solution

gives back critical space to healthcare facilities by removing the bulky box PCs from patient and exam rooms, doctors' offices and nursing stations.

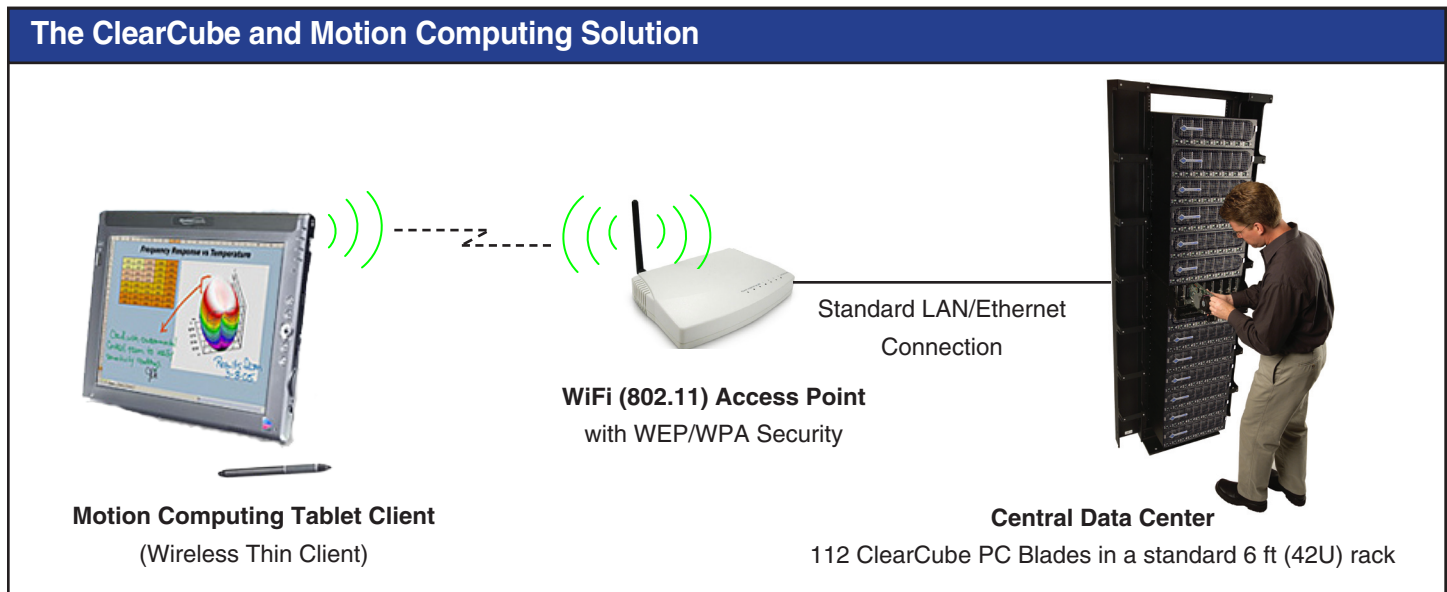
Decreased Cost

The Tablet Client solution's remote management capabilities dramatically reduce technical "fire fighting" and enable hospitals to reallocate their IT resources to more proactive tasks. Removing computers from public areas also reduces accidental user damage and extends hardware lifespan. Through asset centralization and remote management capabilities, the Tablet Client solution can save hospitals up to 40% in support costs.

Summary

The Tablet Client solution offers healthcare providers a mobile computing system that is both convenient and secure. Utilizing a Tablet Client that is connected to a centralized PC Blade, doctors and nurses can instantly access and manage electronic medical records at the point of care. The solution is always available due to dynamic reallocation capabilities, and multiple system safeguards prevent patient data theft. Using the Tablet Client solution, hospitals can increase medical efficiency, harden data security and improve the overall patient experience.

In addition to serving the healthcare market, the Tablet Client solution can also be used to address mobile computing problems in government, manufacturing, warehousing, retail, and other commercial applications.



For more information on how Motion Computing and ClearCube Technology can provide your facility with a tablet client solution, please contact us at 1-866-652-3500.