

# Healthcare Mobility Solutions for the PPT 8800

**symbol**  
The Enterprise Mobility Company™

## Enterprise Solutions

MOBILE COMPUTERS



## Symbol Healthcare Solutions Around the World

Country	Solution
Canada:	From vital signs to medication administration, caregivers are reduce errors and paperwork electronically at the point of care. Physicians, nurses and pharmacies are linked to the information they need when they need it with Spectrum24 wireless LAN and Palm Powered™ productivity tools from Symbol.
China:	Symbol handheld bar code scanners are used in 15 hospitals to create a more effective emergency help network for senior citizens. Over 100,000 Emergency Help Cards have been issued with personal and medical details encoded into PDF417 bar codes, so caregivers use Symbol scanners to get medical information before any treatment is provided to improve effectiveness.
Egypt:	2D-capable bar code scanners from Symbol provide the Egyptian Organization for Biological Products and Vaccines, (VACSERA), with fast, accurate handling of blood products.
Hong Kong:	Caregivers enter vital signs and medication administration data, view records and ensure patient safety using pocket-sized Palm Powered™ devices and Spectrum24 wireless LAN from Symbol.
Israel:	Pocket PC handheld, thin-client enabled computers from Symbol are provide medical staff with the ability to do vital processes such as blood transfusions, lab tests and discharge procedures at the point of care.
Japan:	University of Tokyo Hospital, one of Japan's leading hospitals, has implemented a wireless mobile computing solution throughout its 14 floors that includes a Symbol Spectrum24 wireless LAN, 245 wireless access points and handheld computers. This solution addressed two wireless LAN concerns—security and interference—faced by many hospitals. According to hospital officials, the solution maximizes employee efficiency and patient care while reducing errors for medication administration.
Netherlands:	Doctors and nurses use bar code scanners and portable computers from Symbol to avoid errors from illegible handwriting and incomplete or incorrect information written on prescriptions to ensure that the right patient gets the right medication.
North America—Central:	The VA Medical Center in Iron Mountain, Michigan, uses wireless computing from Symbol to provide caregivers with secure, real-time access to patient records.
North America—East Coast:	With ruggedized handheld devices from Symbol, medical professionals access critical patient information by simply scanning labels on unit-dose drugs, IV bags and patient wristbands.
North America—West Coast:	Adventist Health uses the Symbol Spectrum24 wireless LAN throughout its organization of 20 hospitals in California, Hawaii, Oregon and Washington to connect healthcare practitioners to pertinent medical information through mobile point-of-care carts.
South Africa:	Afrox Healthcare Limited implemented Symbol Pocket PC mobile computers and an IEEE® 802.11b wireless LAN at the Flora Clinic Hospital for point-of-care applications. The solution contributes to improved productivity and reduced errors while increasing the quality of service to patients.
Sweden:	Sweden's National Board of Health and Welfare uses Spectrum24 equipped ambulances that are wirelessly enabled for improved mobile communications to hospitals and emergency relief using a system that combines the Symbol Mobile Gateway and Palm Powered™ handheld devices.
United Kingdom:	Several hospitals, including the Chelsea & Westminster Hospital, London, pioneered the implementation of electronic patient record (EPR) systems. All three systems include the Symbol Spectrum24 wireless LAN and pen tablet computers or pocket-sized Palm Powered™ devices.

## **Symbol Enterprise Mobility Solutions Facilitate Reduced Errors for Increased Patient Safety**

Medical errors have a profound impact on the global healthcare industry. Patient care and safety are compromised, and the additional costs to ensure successful patient outcomes are enormous. Achieving compliance with federal regulations, like the Health Insurance Portability and Accountability Act of 1996 (HIPAA) in the United States, in addition to following the guidelines of organizations such as the Leapfrog Group and the Healthcare Information and Management Systems Society (HIMSS) provides the extra impetus for hospitals and healthcare providers to automate many processes to reduce errors.

For hospitals, there's a compelling value proposition for fixing any business process where the cost of a mistake—in dollars, time and patient suffering or even death—is unacceptably high yet easily preventable. Some of these activities include positive patient identification, medication administration, specimen collection and remote patient monitoring. Enterprise mobility enables healthcare providers to capture, move and manage patient information in real time from the point of care or activity to the point of decision. The use of ruggedized, sealed personalized digital assistants (PDAs), integrated bar code scanning and wireless local area network (WLAN) infrastructure serve as part of the foundation of enterprise mobility reference architecture.

Consumer-based PDA handhelds are not typically designed for use in the rigorous environments found in many hospitals. Wireless capabilities and bar code scanning functionality is frequently an add-on feature to consumer devices instead of a core, integrated capability. Battery management is often difficult, and lack of proper sealing for connectors and slots may lead to complications in hospitals. In addition, few consumer PDAs can withstand multiple drops to the hard floor surfaces. When it comes to customization, such as in keypad configurations, many hospitals also find further limitations in the flexibility of these devices. Consumer PDAs are often inadequate for the kinds of enterprise-level applications found in healthcare.

The PPT 8800 Series with Windows® Mobile™ 2003 software for Pocket PCs from Symbol Technologies maximizes return on investment (ROI) for many healthcare application solutions. Built for use in tough environments, the PPT 8800 is the ideal mobile computer to help hospitals, clinics and laboratories eliminate errors and increase productivity through automation, which in turn improves patient safety and reduces costs associated with medical errors.

**Dennis S. O'Leary, M.D., president of the Joint Commission for the Accreditation of Healthcare Organizations (JCAHO), stated: "The Joint Commission, like others, is deeply concerned that the number of serious medical errors remains unacceptably high, despite the focus of significant national attention on patient safety in recent years." The number one goal for JCAHO's National Public Safety Goals and Requirements for 2004 is to improve the accuracy of patient identification for administering medications or blood products, taking blood samples and surgical or invasive procedures.**

## Healthcare Solutions and the PPT 8800 Mobile Computer



Nurses and doctors require a rugged, high-performance handheld computer that is far more durable and reliable than typical consumer devices. The PPT 8800 is powerful enough to execute mission-critical healthcare applications, yet small and light enough to be carried in a pocket or on the hip. Combined with advanced data capture, wireless networks and

application-specific software, the rugged PPT 8800 enables doctors and nurses to capture, move and manage information in real time from the point of activity to the point of decision in a variety of healthcare applications.

### Medication Administration

Medication administration and verification systems using the rugged PPT 8800 mobile computer and wireless communications enable hospitals and clinics to provide the right medication to the right patient at the right time via the right route at the right dose. Nurses equipped with PPT 8800 mobile computers featuring advanced bar code and screen-based data capture ensure that patients receive more timely, accurate medication administration with a reduced risk of error. Patient information is captured, recorded and documented in real time. Staff productivity also improves, because nurses are able to care for more patients, more efficiently.

#### Benefits Summary:

- ▶ Eliminate medication administration errors
- ▶ Increase patient safety and treatment
- ▶ Reduce costs associated with errors

### Specimen Collection

Specimen collection systems using the PPT 8800 mobile computer with advanced data capture and wireless communications ensure that the right specimen is collected from the right patient in the right quantity and container at the right time so that the right lab tests are performed and the right results are collected. Nurses, phlebotomists and other clinicians are able to perform timely, accurate specimen collection with a reduced risk of error and less patient inconvenience. And the information collected in this process is critical for quality control measures required for certification and accreditation by the JCAHO and the College of American Pathologists (CAP).

#### Benefits Summary:

- ▶ Eliminate specimen collection errors at the point of care
- ▶ Improve patient safety and treatment
- ▶ Reduce costs associated with errors

### Mobile Rounding

Enterprise mobility solutions that include the PPT 8800 make doctors' and nurses' rounds more efficient. Mobile rounding applications help prioritize patients and also assist with vitals/documentation capture, lab report viewing, order entry and charge capture. The PPT 8800 delivers a comfortable, convenient device for doctors and nurses to use without being tethered to a desktop, having to carry around a tablet PC or push a heavy cart.

#### Benefits Summary:

- ▶ Increase productivity for doctors and nurses
- ▶ Improve profitability with real-time patient care
- ▶ Improve patient safety and treatment
- ▶ Reduce costs associated with errors

### Wireless Patient Monitoring

In wireless patient monitoring applications, nurses and doctors are untethered to a single location to monitor patients' vitals and can also remotely program patient monitors and infusion pumps. Using the PPT 8800 with wireless LAN connectivity, healthcare workers become more productive with an increased ability to handle multiple activities and duties without impacting the quality of patient care. It enables doctors and nurses to be contacted in real time and instantly alerted to changes in condition, medication mismatches and other critical information.



#### Benefits Summary:

- ▶ Increase productivity for doctors and nurses
- ▶ Improve patient safety and treatment

### Patient Management

The PPT 8800 and application-specific software facilitates accurate patient in-flows and outflows that are conducted both professionally and expeditiously. With wireless LAN capabilities, the admission, discharge and transfer of patients are conducted in real time. Using the PPT 8800, admissions and clerical personnel ensure that the needed resources are available quickly and efficiently, enhancing patient care, comfort and satisfaction.

**Benefits Summary:**

- ▶ Increase productivity and efficiency
- ▶ Improve patient care, comfort and overall satisfaction

**Asset Management**

The PPT 8800 mobile computer includes options such as an attachable trigger handle, wireless LAN connectivity and advanced bar code data capture to allow hospitals to manage their assets more effectively. With the constant movement of medical equipment and devices from room to room or floor to floor, automation enables hospitals to track valuable equipment better for unmatched asset visibility and operational efficiency.

**Benefits Summary:**

- ▶ Increase operational efficiency
- ▶ Enhance asset management
- ▶ Cost savings

**Distinctive Form and Function for Healthcare Applications**



The PPT 8800 mobile computer delivers versatile features to support broad systems deployments, including ample memory capacity, USB client and AirBEAM® virtual private network (VPN) support for quick, efficient and secure wireless device management. The PPT 8800 offers real-time communications and decision making for secure mobile transactions using standards-based IEEE 802.11b wireless local area network (WLAN) and Bluetooth™ wireless personal area network

(WPAN) connectivity, to name a few. The new Windows Mobile operating system from Microsoft lets developers quickly and easily port existing applications via standards-based APIs to further enhance capabilities in a familiar development environment.

Extremely rugged, the PPT 8800 mobile computer is protected against water and dust for the most reliable performance in any hospital or clinic environment. Laser bar code scanning with support for Reduced Space Symbology® (RSS) provides an enhanced level of accuracy and compatibility with bar code systems used by major pharmaceutical companies on the smallest unit-dose packaging.

Nurses and doctors find the PPT 8800 easily transportable because it fits right into the coat pocket or on the hip. Its large,

vibrant color display is easy to see in a variety of lighting environments. Rechargeable and replaceable lithium-ion batteries (including an optional extra capacity battery) offer maximum usage between charges for increased efficiency and productivity. A full line of complementary accessories is also available.

**The Right Enterprise Mobility Technology Solution for Healthcare**

The PPT 8000 Series with Windows Mobile 2003 software for Pocket PCs from Symbol Technologies delivers many desirable features to help healthcare organizations reduce errors, increase efficiency and improve productivity. Its versatile, small form factor is adaptable for many users, and its advanced data capture capabilities offer high levels of accuracy and accountability. The PPT 8800 mobile computer also includes the option of a powerful wireless infrastructure and remote management software. This rugged enterprise mobility device combined with application-specific software enables hospitals to automate select business processes to improve patient safety in addition to saving time and money.

**Benefits Summary:**

- ▶ Fewer errors
  - Improve patient safety
  - Meet guidelines for JCAHO error reporting process
- ▶ Reduce costs
- ▶ Increase productivity
- ▶ Improve patient care, comfort and satisfaction

Contact us for more information on Symbol enterprise mobility solutions for healthcare, or visit [www.symbol.com/healthcare](http://www.symbol.com/healthcare)

## About Symbol Technologies

Symbol Technologies, Inc., The Enterprise Mobility Company™, delivers solutions that capture, move and manage information in real time, from the point of activity to the point of decision. Symbol solutions integrate advanced data capture technology, ruggedized mobile computers, wireless infrastructure, enabling software and high-ROI applications from our business partners and Symbol Enterprise Mobility Services. Symbol enterprise mobility solutions increase business productivity and velocity, reduce costs and realize competitive advantage for the world's leading retailers, transportation and logistics companies and manufacturers as well as government agencies and providers of healthcare, hospitality and security. More information is available at [www.symbol.com](http://www.symbol.com)

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AB-HEALTH-PPT8800 02/04