



Mobile
Computing

Mobility Services
Platform

Wireless
Infrastructure

RFID

Advanced Data
Capture

Services

Product And Services Overview 2005

Advanced Data Capture

Advanced data capture systems enable customers to "Capture" critical information and transactions at the point of business activity - anywhere, and at any time. Symbol advanced data capture solutions are now integral parts of customers systems which include: supply chain execution, retail point-of-sale (POS), asset management, mobile CRM (customer relationship management), direct store delivery, and medication management. With emerging data capture and communications technologies including RFID (radio frequency identification), locationing, VoIP (Voice-over-IP), and biometrics (security application and implementation).

Hand-Held Scanners

LS 2208/LS 2208AP

The LS 2208 hand-held scanner delivers performance features at an affordable price, with working range of 43cm from contact and scans at 100 scans per second. It uses Reduced Space Symbology and has a sleek ergonomic design to reduce user fatigue. It helps you get started fast and inexpensively.



DS 3407/DS 3408

Capture both one- and two-dimensional bar codes in the most rugged environments with the DS3407 and DS3408 digital scanners. With omnidirectional scanning capabilities, laser-like performance and IP65 sealing, the DS3400 series ensures an accurate read, increased productivity and reduced error rates, even in wet or dusty conditions.



P 360/370 P 460/470

Rugged, high-performance cablemode or cordless scanners that are designed to minimize fatigue in scan-intensive applications. Cabled to a host, they allow users to collect data while freely roaming the premises for up to 12 hours. Even if the unit loses power, data in memory is not lost. As for cordless scanners, they give users freedom up to 30m or more from the host system, even without direct line of sight.



DS 6607/DS 6608

DS6607 and DS6608 give laser-like speed and accuracy for true point-and-shoot data capture. And the DS6607 captures images for digital document storage and processing applications. With a wide working range, it offers scanning versatility for retail, manufacturing and warehouse environments. Use it handheld or hands-free - without compromising throughput or accuracy.



LS 3408ER/LS 3408FZ/LS 3478ER/LS 3478FZ

The LS 3400 series delivers superior performance and versatility for scan-intensive industrial applications. It ensures maximum reliability with less down time due to accidental drops. IP65 sealing rating (electronic enclosure) protects against water and dust, user-friendly ergonomics and multiple on-board interfaces to ensure flexible plug-and-play host connectivity. Also comes in cordless version.



- ER : Extended working range of up to 14.6 m that reads bar codes at a far distance
- FZ : Fuzzy logic technology for fast and accurate reading of damaged, dirty and poorly printed one-dimensional (1D) bar codes

LS 4008i

The LS 4008i combines superior bar code scanning performance and flexible host connectivity with maximum user comfort at a highly attractive price. The scan line is visible even in bright light, so aiming is simple. A wide working range-from contact out to more than 48 cm on 100% UPC symbols makes it ideal for a wide variety of applications.



CS 1504

CS 1504 enables customers to capture bar codes on retail merchandise in order to create a shopping list, purchase an item or simply link to the Web for further content about the item of interest. Small and lightweight enough to fit in a pocket or purse, anyone can use this pocket-sized scanner at home, in the store or on-the-go.



Hands-Free Scanners

LS 9208

The LS 9208 presentation scanner delivers both a high-performance processor and an innovative 100-line rastering omni-directional scan pattern for increased productivity at checkout. Built for both speed and versatility, the LS 9208 features a small footprint that fits into the tightest cash/wrap environment, a choice of colours and an optional, adjustable multimount stand that is easily adaptable to many point-of-sale retail environments.



LS 7708

Keep checkout lines moving quickly with the LS 7708. It offers next-generation technology that accelerates scanning and point-of-sale throughput, helping you improve customer satisfaction rates. The fastest mini-slot scanner on the market in its price range, the LS 7708 provides the functionality needed in today's retail environment at a affordable price.



M2000

Future-ready now, the M2000 decodes existing, new and emerging bar code symbologies like 2-D, Composite UCC/ EAN and RSS instantly. Scanner is easy to aim, even in brightest sunlight as the Cyclone uses the latest, brightest visible laser diode technology. It handles all large and small merchandise easily with its handheld or hands-free operation option. At the same time, the sleek design complements any store's decoration.



Wearable Scanners

WSS 1060

The WSS 1060 helps users perform scanning, portable computing and wireless networking while the user's hands remain totally free to handle materials and perform other tasks. Ergonomically designed miniature computer with backlit display, programmable keypad and powerful computing capabilities increase productivity and ease of use.



RS 1 Ring Scanner

The RS 1 at just 2.3 cm high and weighing less than 48 gm, is worn on the index finger and features a thumb-activated scanner button. Cabled with Symbol's wearable computer WSS 1060, the RS 1 reads bar codes up to 76cm, even poor quality bar codes. Fits fingers of all sizes and the strap can be changed quickly from user to user.



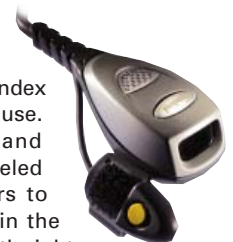
WS 1200-LR

The WS 1200-LR is a long-range, wearable bar code scanner. Cabled to Symbol's wearable computer WSS 1060, it is worn on the back of the hand and triggered by a low-profiled thumb-activated switch that fits securely on an index finger. Because the fingers are left free, the scanner is exceptionally well-suited for package-handling intensive activities. Long-range scanning capability captures bar code data on labels that are out of reach.



SRS-1 Wearable Ring Scanner

The lightweight SRS-1 fits snugly on the index finger and will not slip or rotate while in use. With a low profile of under 1.3 cm and weighing about 20 gm, it offers unparalleled freedom of movement, allowing users to comfortably pick, scan and pack even in the tightest spaces. Integrated trigger for both right- and left-handed users.



Micro-Kiosks

MK 1100

The MK 1100 is the perfect space-saving device to cost-effectively deploy and run applications with digital signage, price verification and bar code scanning throughout a retail environment to grow sales opportunities. With a depth of less than 10 cm and a bright, eye-catching 16.26 cm VGA display, it is compact in size yet easily visible and intuitive for first-time users.



MK 2000

The MK 2000 helps to target customers with in store promotions while they shop. With its 16.26 cm diagonal, full VGA display, 400 MHz CPU, stereo speakers and sleek design, it can present product information including product images, audio/video clips and targeted text messages to influence purchase decisions. Easy to use Microsoft Windows CE .NET operating system reduces application development time with standard Windows development tools.



Radio Frequency Identification (RFID)

MC9000G-RFID

The MC9000-G with RFID is a ruggedized mobile computer that features integrated support radio frequency identification standard - EPC(tm), the Electronic Product Code. By integrating support for either EPC Class 1 or Class 0 RFID reading and programming with a robust commercial mobile computer, it is able to offer an unparalleled level of functionality suitable for a broad range of RFID applications. Combining RFID, bar code reading, imaging, 802.11 connectivity, a full 1/4 VGA screen and alphanumeric keypad, the MC9000-G with RFID has the flexibility to give real-time access to mission-critical information from key points in the supply chain.



DC400

The industrialized DC400 is ideal for placement at entrance and exit portals such as office doors, industrial dock doors, security gates or custom-designed portals on conveyor manufacturing lines. The system includes both multi-protocol RFID readers and high-performance antennas for fast, accurate reading of RFID tags. Designed from the start with ease of deployment in mind and built from point products, the DC400 portal solution expands the benefits of mobility - increased productivity, enhanced inventory visibility and real-time information access - to every asset that passes through the dock doors or portals.



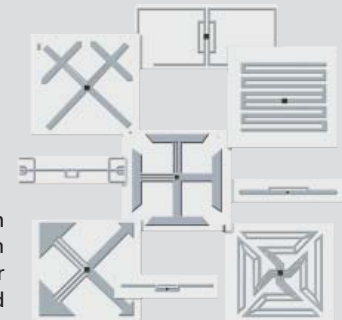
AR400

The AR400 is an industrial-class, fixed reader that provides all of the RFID and control functions required to power and communicate with passive RFID tags. It is a high-performance reader with SNMP-managed networking capability that collects, writes, processes and communicates information from all classes of EPC RFID tags. The AR400 leverages advanced digital signal processing (DSP) to deliver superior interference management and is optimized to read tags in both clean and noisy radio environments.



Tag Inlays

RFID UHF tag inlays, in both standard and custom formats, are ideal for unique identification and non line-of-sight data capture to identify and track assets or inventory moving across the supply chain, and many other applications.



Mobile Computing

Enterprise mobility begins with the ability to capture information at the point of business activity. Through Symbol's powerful, ruggedized, versatile and innovative mobile computing solutions, customers are better able to capture critical information and transactions at their point of origin. Designed for optimum productivity and ROI, these mobile computing solutions are essential components of customers' systems which includes: supply chain execution, retail point-of-sale (POS), route accounting, mobile CRM (customer relationship management), direct store delivery, and medication management.

Key-Based Terminals

MC50

Empower on-the-go professionals with a mobile device made specifically for the enterprise. The MC50, Enterprise Digital Assistant, connects you to real-time information with integrated voice, data and wireless capabilities - all manageable from a single unified platform. And, with an enhanced durable design, you can feel confident using the MC50 in the office, on the sales floor or at a customer site.



MC3000

The MC3000 is a small form factor, ruggedized mobile computer for use in bar code and image scanning-intensive applications. With a feature set that delivers superior data collection, communication and collaboration, it facilitates faster decision-making and increased productivity in a variety of environments-from the retail store to the warehouse to the parcel carrier.



MC9000 Series

The rugged MC9000 Series is an exceptionally reliable mobile computer that delivers real-time visibility to the company's mission-critical information. They help to reduce errors, improve productivity and comply with increased safety standards, environmental or homeland security regulatory issues.

- Withstands multiple 6 ft. drops to concrete
- IP64 sealing rating (electronic enclosure, display and keypad) protects against windblown rain and dust
- Microsoft Windows CE .NET, Windows Mobile 2003 operating systems
- Real-time data exchange for Wireless WAN (GSM/GPRS, CDMA), wireless LAN (IEEE 802.11b), PAN (Bluetooth) communications or RS-232/USB client
- Allows short- or long-range scanning of 1D bar codes; optional imager supports 2D symbologies
- MC9000-G: "Gun Ergonomic" for scan-intensive applications
- MC9000-K: Optimized to support 53-, 43- and 28-key variants
- MC9000-S: Optimized for form factor around 28-key keypad and mobile field applications



PDT 8100

The PDT 8100 Series bridges the gap between pure pen-based and key-based mobile data collection solutions. It is a rugged, large-screen handheld that delivers the functionality of Pocket PC with the convenience of tactile, key-based data entry with multiple keyboard options. Its intuitive laser aiming system, self-illumination capability, Smart Focus and CCD sensor technology allows users to quickly aim and capture bar code data and still images. It includes backlit keypad, VGA touch screen and WLAN or WWAN communication.



PDT 6100 Series

The PDT 6100 Series combines superior ergonomics, a high-performance scan engine and optimum battery life to provide unsurpassed performance for gathering, displaying and communicating the critical data that drives business. Available in both retail and light industrial versions, the 16-bit PDT 6100 offers a choice of 4- or 8- line by 20 character LCD displays as well as other keyboard configurations.



PDT 3100 Series

Built for unmatched durability and designed for flexible, single-handed operation, the 16-bit DOS lightweight PDT3100 offers a choice of 4- or 9- line by 20 character displays as well as other options. It also has a reversible scan head that allows user to select left- or right-handed scanning position for maximum user comfort.



PDT 6800 Series

The PDT 6800 Series are rugged, light weight portable data terminals with well-balanced "forward scanning" ergonomics and optional wireless connectivity. They are ideal for data management activities and increase accuracy anywhere along the supply chain. The "forward-scanning" design enhances productivity for scan-intensive applications in retail such as inventory management, replenishment and price management.



Pen/Touched-Based Terminals

SPT 1550

The SPT 1550 lightweight pocket-sized Palm OS-powered device offers mobile professionals benefits of data capture, information access and computing power. It has intuitive point and display operation, multiple modes data input like signature capture, one-touch data synchronization with host or network, generous 8 MB of RAM and 4 MB of ROM, 33MHz processor and backlit 160 x 160-pixel display.



PPT 8800 Series

The PPT 8800 with Windows Mobile 2003 software for Pocket PCs or CE.Net is powerful enough to execute mission-critical applications, yet small and light enough to be carried in a pocket or on the hip. Its versatile features support broad systems deployments, including ample memory capacity, USB client, AirBEAM®, IEEE 802.11b and Bluetooth™ connectivity. It can endure extreme temperatures and multiple drops to concrete.



Vehicle-Mount Terminals

VRC 8900 Series Vehicle Radio Computer

The VRC 8900 mobile data terminal is a rugged device for use in the toughest environments with the industry-standard Windows CE operating system, a full-screen 12.1" SVGA colour display, and QWERTY keyboard. Sealed for protection against dust and water to IP65 standards, and shock-tested to 24G, the VRC 8900 is reliable in the most extreme temperature and environmental conditions, and easily tolerates sub-zero freezers as well as the vibration and repetitive pounding of forklift applications.



Wireless Infrastructure

Symbol enables customers to move captured data with centralized wireless infrastructure solutions - that deliver the most robust performance, reliability, security, and scalability. With standards-based wireless communications, networking and mobility technology implementation, Symbol has the expertise to provide a seamless, wireless infrastructure platform for enterprise mobility transactions. These wireless infrastructure solutions offer highly differentiated features that are vital in mission-critical applications. Such wireless infrastructure solutions are: highly manageable, highly available and supported by world-class security options in different user environments.

Wireless Switch System

WS 5000 Wireless Switch

The WS 5000 redefines the standard for enterprise class wireless networks, by centralizing intelligence that was previously distributed throughout a wireless network via access point. When combine with Access Ports, the Wireless Switch system delivers extensive functionality, security, scalability and management at a much lower TCO.



- Simplifies network integration tasks and eliminates the need to configure and manage each device
- Support up to 30 Access Ports
- Support Access Control Lists (ACLs), 802.1X and Kerberos (PKI)
- Enables multiple mobile and wireless applications with quality of service during periods of network congestion

WS2000 WirelessSwitch

The WS 2000 is a integrated wired and wireless networking solution, priced and designed for small to medium enterprises. It offers extensive wireless LAN Ethernet switching and gateway functionality, high performance, and scalability to deliver outstanding investment protection and network simplicity.



- Supports 2.4 GHz and 5 GHz frequencies with direct sequence and OFDM encoding techniques
- Provides connectivity to Cable/DSL Modem; supports WAN protocols
- Virtual AP: True virtual wireless LAN with multiple BSSID support
- Load balancing and pre-emptive roaming

WS 5100 Wireless VPN Switch

The WS5100 boasts of high capacity throughput of 940 Mbps and packet processing speed of 383,000 pps. It is backward-compatible with WS 5000 installations by configurable Ethernet ports and better serviceability with status LEDs and health monitoring on chassis.



Access Ports

Working in conjunction with Symbol's Wireless Switch, Access Ports deliver robust and feature rich IEEE 802.11 wireless LAN connectivity. Access Ports substantially reduce the cost of deploying, implementing and managing a wireless LAN, while significantly increasing features, functionality and security of the wireless LAN infrastructure



- * Pre-emptive Roaming, Transmit Power Control and True plug-and-play
- * Dynamic frequency selection, QoS, load balancing and service fairness
- * Centralized security, mobile device management, and 12-channel bandwidth allocation

AP100 - 802.11b Access Port

AP200 - 802.11a/b Access Port

AP300 - 802.11a/b/g Access Port

Access Point

AP 4131

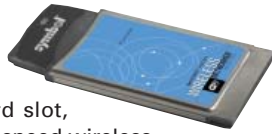
The AP 4131 provides wireless LAN performance required for advanced mobile networking and business-critical wireless voice and data application support, including 10/100 Base-T Ethernet connectivity, and the industry's most open and advanced security solution. It ensures interoperability among other Wi-Fi certified wireless systems.



Client Adapters

LA 4121 Wireless Networker PC Card

Based on the IEEE 802.11b open standard for wireless local area networking, the LA 4121 slips into any laptop or device with a PC card slot, providing high-throughput, Ethernet-speed wireless data communications. Devices equipped with LA 4121 communicate with the Spectrum24 Access Point or other Wi-Fi certified access points. Enable associates to gain instant access to vital network resources.



- Supports bandwidth-demanding applications and high-data rate transmission
- Ensures interoperability among other Wi-Fi certified wireless systems

LA 5030/LA 5033 Wireless Networker 802.11 a/b/g PC Card

The LA 5030/LA 5033 enterprise-class high-bandwidth wireless connectivity for laptop and desktop computers. They offer maximum flexibility, integrating seamlessly into wireless switch and access point-based wireless networks.

- Tri-mode radio design
- Standards-based support of wireless protocols

LA 4137 Wireless Networker CF Card

The LA 4137 brings the power of high-speed Wi-Fi wireless connectivity to today's popular personal data appliances. Thus, applications and communications are mobilized at Ethernet-speed, providing cable-free access to corporate and public networks.



- Supports PDAs running MS Windows Pocket PC with CompactFlash Type I/II extended card slots
- Supports notebook PC running Windows operating systems with a Type II PC Card slot via a CF-to-PC Card adapter



EthernetSwitch, POE, Bridges and Mobility Server

ES 3000 Ethernet Switch

The ES 3000 is the ideal enabler for wireless switching infrastructure environments. This standards-based Fast Ethernet/Gigabit Ethernet switch provides the reliability, security and scalability enterprises demand, while also integrating the features required to achieve optimal performance and operational efficiency in your wireless network.



- Virtual LAN support, QoS, with IEEE 802.1p
- 24 port 10/100 Base-T + 2 GE (Copper standard/ Fiber optional)
- Security filtering or Access Control List

Power-Over-Ethernet

Power-over-Ethernet solutions deliver operating power and data to Spectrum24 High Rate Access Points via standard Ethernet cabling, eliminating the need to run separate power lines to each access point location. This significantly reduces cabling and outlet requirements, especially in hard-to-reach locations such as ceilings.



- Remote powering of Spectrum24 High Rate Access Points
- Protection against power failures when used with a UPS

CB 1000 Client Bridge

The Spectrum24 CB 1000 Client Bridge extends wireless networking capabilities to printers, scales, medical equipment, manufacturing machinery, bar code readers, time clocks, point-of-sale, and other data collection devices. It provides a reliable, cost-effective interface between devices utilizing RS-232 serial or Ethernet ports and wireless LAN access points.



- Spectrum24 2 Mbps Frequency Hopping 11 Mbps Direct Sequence radio
- Connectivity options including TCP/IP stack; IEEE 802.11 and IEEE 802.11b compliant

MS 1000 Spectrum24 Mobility Server

The Spectrum24 Mobility Server is an enterprise-class Kerberos KDC (Key Distribution Center) which protects wireless LAN and mobile clients with advanced security through simple, cost-effective deployment of Kerberos V5. It also supports dynamic key distribution - issuing a unique key per session per client and a new key at regular intervals and on every roam.



- Supports an enhanced level of security for mobile environments
- Secure Web-based interface
- Provide a high level of reliability and flexibility to grow

Mobility Services Platform (MSP)

The MSP is a scalable hardware and software enterprise management solution. It is comprised of the MSP Console, a Web-based user interface; the MSP Appliance, a rack-mounted computer with preconfigured software; MSP Agents, mobile device resident software components; and standards-based management protocols. The MSP Agents collect monitoring information such as battery level, network statistics, CPU utilization and configuration information from mobile devices and deliver this information to the MSP Appliance. Additionally, the MSP Appliance communicates with wireless infrastructure elements such as access points and wireless switches through wireless network management protocol (WNMP) and SNMP.



Features	Benefits
Association tree of all mobile devices, wireless infrastructure switches and access points	Provides deep visibility of all mobile assets for inventory management and planning
Device health monitor includes network and RF status, battery level, CPU usage, device identity and more	Dramatically reduces downtime and improves preventive maintenance
MSP Console for centralized, policy-based provisioning of mobile devices	Lowers administrative costs and increases ease of management
Automatic download, installation and configuration of new devices through easy-to-use bar code scanning	Reduces rollout time of new devices from months to weeks for rapid deployments
Mobility management information and status reporting and charting	Delivers easy-to-read graphical representation of network statistics and device health
Remote Control Agent enables troubleshooting and control of devices	Offers complete centralized control of mobile devices to reduce management time and effort

The MSP Appliance is available in two versions: MSP Lite and MSP Enterprise. MSP Lite is designed for deployment at remote sites such as regional offices, distribution centers or stores. MSP Enterprise is ideal for centralized sites such as network operations centers (NOCs). MSP Enterprise is also used to communicate with multiple MSP Lites to create a robust, scalable architecture.

Specification Highlights

	MSP Enterprise	MSP Lite
Maximum number of mobile devices:	2,000	250
Maximum number of access points and switches:	2,000 access points OR up to 1,000 pairs of wireless switches	250 access points OR up to 125 pairs of wireless switches
Number of subsidiary MSP Lites that can be managed:	15	N/A
CPU:	Dual CPU	Single CPU
OS:	Linux	Linux
Processor:	Two 2.8 GHz Intel(r) Xeon*	One 2.8 GHz Intel(r) Xeon*
Memory:	2GB SDRAM	1GB SDRAM
Hard drive:	Dual mirrored 73.4 GB (RAID 1)	Dual mirrored 36.4 GB (RAID 1)
Ethernet ports:	Dual Gigabit 10/100/1000	Dual Gigabit 10/100/1000
Rack units:	2	1
Devices supported:	See MSP section on www.devzone.symbol.com for a list of supported MSA	



As compelling as its advantages are, true enterprise mobility comes with a high degree of complexity. To make mobility work in the real world, interoperability and integration across systems and within standards are essential. Mobile devices must work consistently and reliably. Wireless network infrastructure must function persistently and securely – while integrating seamlessly with other enterprise networks and information systems. Monitoring and management capabilities must provide visibility and efficient, centralized remote control of up to thousands of devices across networks and locations. Specialized services must be available on a global basis – from design to deployment to post-deployment – to optimize solutions on an ongoing basis.

Today, one company provides the tightly integrated and comprehensive capabilities that not only make mobility work, but that make it an enabler of real advantage: Symbol. The Enterprise Mobility Company.

Symbol and its global network of business partners provide **end-to-end** enterprise mobility solutions that let you **capture** information in real time, at the point of business activity. **Move** information instantaneously to and from the point of greatest impact. And **manage** the unimpeded flow of information with exceptional efficiency and security. These comprehensive and integrated capabilities – **Cm²** – represent all the elements of a scalable, extensible mobility architecture.

The Architecture of Enterprise Mobility

