VRC 8900 Series

symbol®

New Breed of Mobile Device for the Harshest Warehouse and Factory Environments

The new VRC 8900 mobile data terminal from Symbol Technologies is an industry first—a rugged device for use in the toughest environments with the industry-standard Windows CE operating system and a full-screen color display. 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.

Designed for distribution centers, factory floors, and warehouses, the VRC 8900 supports real-time receiving, tracking, put-away, picking and shipping, and 1-D and 2-D scanning applications—and delivers a new level of benefits wherever implemented.

Full Suite of Features

The VRC 8900 combines best-in-class features to deliver the highest levels of performance, usability, and flexibility including:

Performance
▸ The fastest processor available today for Windows CE
▸ Industry-standard operating system provides instant user familiarity and strong application-development support
▸ The memory you need to support your applications

Usability
▸ Works with all forklifts—propane, gasoline and electric
▸ Large, bright, high-resolution touchscreen enables easy reading and data management in any conditions
▸ Programmable function keys bring one-touch simplicity to common tasks
▸ Touchscreen and optional keyboard designed for use by gloved operators
▸ Internal power supply prevents data loss when main power is removed

Flexibility
▸ Easily integrate legacy applications as well as new applications as the business evolves
▸ Automatically update device with the most current software and system applications
▸ Supports wide array of Symbol scanners and Wireless Local Area Networks (WLANs)

Microsoft® Windows® Embedded™ Partner

Features	Benefits
12.1" SVGA touchscreen with 800 x 600 color display	**Large, bright display allows easy viewing in any lighting—from bright to dark**
IP65 and 24G shock tested	**Reliable in extreme temperature and environmental conditions, including the repetitive pounding of forklift applications**
Embedded Microsoft® Windows CE OS	**Familiar interface; eliminates learning curve; enables use of common and custom applications**
Microsoft® Internet Explorer Web browser	**Familiar interface reduces training time and costs**
Optional 62-key illuminated keyboard with 24 function keys	**Easily accommodates gloved hands; provides flexible data entry; increases productivity via function keys**
Intel StrongArm® 1110™ Processor	**Dependable high performance, reliability, and power efficiency**
32 MB RAM/ROM; 32 MB non-volatile Flash	**Provides ample data storage and enhanced performance; enables flexibility to design server- or client-side programs**
Easily accessible touch-enabled membrane switch with 3 programmable keys, 2 LEDs, and Hi/Lo display	**Perform common tasks with a single press of a button; easily diagnose communication/power problems and adjust screen brightness**
Wavelink client-side emulator support	**Integrate legacy and new applications as business evolves; leverage investment in existing infrastructure**
AirBEAM® Smart-enabled	**Reduces total cost of ownership: automatically update device with most current applications and system software; eliminate time and overhead associated with pre-staging and manual configuration**
Heater option	**Reliable operation in freezer/cold store/outdoor environments as low as -22° F/-30° C**
Ergonomic handles	**Easy adjustment of terminal and keyboard**

The Bottom Line

The rugged design and innovative features of the VRC 8900 enable immediate data capture and exchange in virtually any factory or warehouse environment. The result is a faster, better decision-making process, increased productivity, and a positive impact on profitability. The VRC 8900 is backed by Symbol's worldwide service repair and support network. Application development expertise is available through Symbol's strong network of Business Partners.

Symbol systems are critical to the success of businesses everywhere by enabling the capture, access and management of information in data-intensive, time-sensitive environments at the point of activity. To find out how your company's workforce can benefit from the rugged state-of-the art VRC 8900 vehicle-mount data terminal, contact any of the convenient locations listed below or visit us at **www.symbol.com/mobile**

VRC 8900 Series Specification Highlights

Physical Characteristics	
Dimensions:	12.2 in. H x 10.3 in. W x 3.4 in. D 30.9 cm L x 26.2 cm W x 8.6 cm D
Weight:	9.25 lbs. / 4.2 kg (excluding mounting bracket and keyboard assembly)
Power Supply:	Internal wide range power supply (11-60 VDC) Transient spike and overcurrent/voltage protected Reverse polarity protected Connects directly to vehicle battery Optional AC power supply
Backup Battery:	NiMH battery
Display:	12.1 in. SVGA high contrast/brightness display Standard resistive touchscreen
Keyboard:	62-key alphanumeric color-coded and sealed elastomer keyboard with tactile feedback; constant illumination; function keys F1-F24; universal QWERTY layout to include VT100/220, 3270 and 5250 functions; audible key beep; optional heated keyboard
Interface Ports:	Two RS-232 serial ports; keyboard port; USB port (host or slave), power input

Performance Characteristics	
Operating System:	Embedded Windows CE 3.0
Microprocessor:	StrongARM® SA 1110™ @ 206MHz
Architecture:	32 bit
System Memory:	32 MB of Non-Volatile Flash; 32 MB of DRAM
Data Communication:	RS-232 Serial Ports (2), USB, keyboard
Terminal Emulation:	3270, 5250, VT100, VT220: supports Citrix, Windows Terminal Services
Programming Tools:	AirBEAM®, Microsoft Embedded Tools version 3.0, VRC 8900 SDK

User Environment	
Environmental Sealing:	Meets IP65 standards for protection against dust and water
Vibration:	24G shock load

Operating Temperature
  Without heater:
  With heater:
	
	32° to 122° F / 0° to 50° C
	-22° to 122° F / -30° to 50° C

Storage Temperature:	-4° to 158° F / -20° to 70° C
Humidity:	5% to 95% noncondensing
ESD:	20kv air, 8kv contact

Wireless Communications	
Network:	Spectrum24® IEEE 802.11 and 802.11b compliant
Output Power:	500 mW US, 100mW worldwide
Data Rate:	2 Mbps or 11 Mbps
Spreading Technique:	Frequency Hopping (2 Mbps) / Direct Sequence (11 Mbps)
Frequency Range:	Country dependent, typically 2.4 to 2.5 GHz
Radio Module:	Internal PCMCIA
Security Protocol:	Kerberos (11 Mbps only)

For system, product or services availability and specific information within your country, please contact your local Symbol Technologies office or Business Partner.

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VRC89 04/02

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