

### Engineered to maximize productivity in the harshest enterprise environments

The VC5090 Vehicle/Fixed-Mount Mobile Computer from Symbol Technologies combines rugged construction and high performance wireless networking to enable real-time data access and collection in the harshest environments — from the loading dock and freezer to the warehouse floor. Whether your workers are on a forklift, at a fixed station or moving through the warehouse aisles, the VC5090 provides the tools needed to increase productivity and reduce errors in shipping and receiving, as well as put-away and picking applications. The results are improved decision making, streamlining of warehouse operations — and a positive impact on your bottom line.

### Maximum durability and reliability


With industrial and military grade specifications for vibration, shock, temperature and sealing, the VC5090 delivers maximum durability in the toughest environments. From the subzero temperatures in a freezer to the repetitive pounding and vibrations of forklift operations, the VC5090 delivers reliable year after year performance, protecting your investment and delivering the uptime needed to keep your business moving.


### Support next-generation applications

The VC5090 offers the high performance and robust functionality needed to support innovative rich browser-based and custom Windows CE mobile applications as well as today's terminal emulation applications. The fully featured device is equipped with the functionality to streamline supply chain management through seamless connectivity to virtually any wireless LAN through 802.11a/b/g, wireless scanning and printing via Bluetooth, support for voice-picking, and Voice-over-IP via a push-to-talk handset. In addition, the RFID-ready VC5090 can be easily integrated into future Symbol forklift and vehicle mounted RFID reader solutions. The sharp high-resolution screen is easy to view in any warehouse environment. The touchscreen enables easy data input with gloved hands. And the familiar easy-to-use Windows CE platform provides compatibility with many of today's mobile applications.

### Reduce the cost and complexity of mobility

The VC5090 delivers even greater value as part of Symbol's leading rugged mobile computer line. The shared hardware and software architecture enable the VC5090 to integrate seamlessly into your existing Symbol infrastructure. Applications developed for other Symbol rugged mobile computers can be easily ported to the VC5090, dramatically reducing software development and training requirements, and increasing the return on investment for existing applications. Adding Symbol's Mobility Services Platform (MSP) enables you to quickly and easily deploy, provision, track and support all your VC5090 devices,





| FEATURES  | BENEFITS   |
|---|--|
| <b>Common Symbol architecture</b> with Intel XScale® PXA270 @ 624 MHz and Windows CE 5.0 Professional | Easily leverage applications developed for other Symbol rugged mobile computers; support for a wide range of applications, real-time processing and data storage needs |
| <b>Integrated 802.11a/b/g WLAN</b>  | Seamless integration with your existing WLAN for powerful real-time data visibility  |
| <b>Rugged construction:</b> IP66-sealed aluminum housing and MIL-STD-810F military rating             | Designed to withstand the most extreme environments, protects your investment; dramatically reduces downtime and repair costs  |
| Eligible for <b>Service from the Start with Comprehensive Coverage</b>                                | Contract extends normal wear and tear to cover accidental damage to displays, touchscreens and internal components; reduces repair costs                               |
| <b>Standard heater</b> on all models at no extra cost   | Reliable operation in freezer/cold store/outdoor environments as low as -22° F/-30° C  |
| <b>MSP compatible</b>   | Easy and cost-effective centralized remote management  |
| <b>Internal antennas</b> and support for external antenna   | Ensures robust wireless connectivity, even in challenging environments   |
| <b>WPAN:</b> Bluetooth v1.2   | Support for wireless printing and cordless scanning  |

anywhere in the world, from a central location — delivering an unprecedented level of simplicity and low cost to managing mobile devices. To help protect your investment, Symbol offers Service from the Start with Comprehensive Coverage, which repairs damaged displays, touchscreens and keyboards at no extra charge. On Site service options are also available.

For more information on the VC5090, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the web at: [www.symbol.com/vc5090](http://www.symbol.com/vc5090)

## VC5090 Series Specifications

### Physical and Environmental Characteristics

|                                    |  |
|------------------------------------|--|
| Dimensions:                        | <i>Full screen:</i> 10.6 in. L x 12.2 in. W x 4.5 in. D<br>26.9 cm L x 30.9 cm W x 11.4 cm D<br><i>Half screen:</i> 11.28 in. L x 12.2 in. W x 5.04 in. D<br>28.65 cm L x 30.9 cm W x 12.8 cm D      |
| Weight:                            | <i>Full screen:</i> 14.5 lbs./6.85kg; <i>Half-screen:</i> 16.31 lbs./7.4kg   |
| External Keyboard:                 | QWERTY, 65-key with tactile feedback and audible key beep; heated and sealed; function keys F1-F24   |
| Quick Access Keypad:               | User programmable  |
| Display:                           | <i>Full screen:</i> Color 12.1 in. SVGA 800x600<br><i>Half screen:</i> Color 10.5 in. half-SVGA 800x320<br>Both come standard as heated, 350NIT, 500:1 contrast displays with resistive touchscreens |
| Power Supply:                      | Internal wide range power supply (10-60 VDC); reverse polarity protected; connects directly to vehicle battery   |
| Internal UPS Battery (optional):   | Prevents device resets in poor power environments; minimum 30min. operation typical based on user profile  |
| Backup Battery:                    | NiMH battery; 72 hour (min.) RAM/real-time clock retention   |
| Interface Ports:                   | Two RS-232 serial ports which also supply power to peripherals; keyboard/USB port; USB port (host or client); power input  |
| Audio Port:                        | Supports VoIP handset, voice picking headset and external speakers   |
| <b>Performance Characteristics</b> |  |
| CPU:                               | Intel XScale PXA270 processor at 624 MHz   |
| Operating System:                  | Microsoft Windows CE 5.0 Professional  |

|  |   |
|--|---|
| Architecture:  | 32 bit  |
| Memory (RAM/ROM):  | 64MB SDRAM/192MB Flash (non-RoHS compliant);<br>128MB SDRAM/192MB Flash (RoHS compliant)  |
| Expansion:   | SD Memory Card  |
| Terminal Emulation:  | Wavelink 3270, 5250, VT100, VT220 pre-loaded  |
| Additional Tested Software:                                  | Citrix client, Windows CE Remote Desktop, SAP console   |
| Application Development:                                     | Microsoft Embedded Visual C++ Tools 4.0, TNT SMDK, VC5090 PSDK, Microsoft Visual Studio 2005  |
| <b>User Environment</b>                                      |   |
| Operating Temperature:                                       | -22° to 122° F/-30° to 50° C  |
| Storage Temperature:   | -40° to 158° F/-40° to 70° C  |
| Humidity:  | 5% to 95% condensing at -22° to 122° F/-30° to 50° C  |
| Environmental Sealing:                                       | Meets IP66 standards for protection against dust and water  |
| ESD:   | 20kv air, 8kv contact   |
| <b>Wireless Data Communications</b>                          |   |
| WLAN:  | IEEE 802.11a/b/g*   |
| Output Power:  | 100 mW U.S. and international   |
| Data Rate:   | 802.11a: up to 54 Mbps; 802.11b: up to 11 Mbps;<br>802.11g: up to 54 Mbps   |
| Antenna:   | Two internal diversity antennas; external antenna connector   |
| Frequency Range:   | All country dependent:<br>802.11a - 5 GHz; 802.11b - 2.4 GHz; 802.11g - 2.4 GHz   |
| Spreading Technique:   | Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM)  |
| Security Protocol:   | WPA - Enterprise; Wi-Fi IEEE 802.11 a/b/g/d/h/j Certified; Encryption - TKIP, 40/128 bit WEP; rich set of WPA-Enterprise 802.1x security supplicants; CCX V1 Compatible; (WPA2 and full CCX support - future) |
| WPAN (Bluetooth Support):                                    | Bluetooth Version 1.2   |
| <b>Regulatory</b>  |   |
| EMC:   | FCC Part 15B, ICES-003 Class B., EN 55022, EN 301 489-1 & 17  |
| RF:  | FCC Part 15.247, 15.205, 15.209, 15.203, 15.407, 15.207, EN 300 328, EN 301 893, RSS-210, ARIB STD-66 & 33, T70 & T71   |
| Safety:  | UL 60950-1, CSA C22.2 No. 60950-1, EN 60950-1, IEC 60950-1  |
| *NOTE: 802.11a is not available in this product in Thailand. |   |



## About Symbol Technologies

Symbol Technologies, Inc., The Enterprise Mobility Company™, is a recognized worldwide leader in enterprise mobility, delivering products and solutions that capture, move and manage information in real time to and from the point of business activity. Symbol enterprise mobility solutions integrate advanced data capture products, radio frequency identification technology, mobile computing platforms, wireless infrastructure, mobility software and world-class services programs. Symbol enterprise mobility products and solutions are proven to increase workforce productivity, reduce operating costs, drive operational efficiencies and realize competitive advantages for the world's leading companies.



**Switzerland** - OPAL Associates AG - Motorenstrasse 116 - CH-8620 Wetzikon - Tel.: +41(0)44 931 12 22 - Fax: +41(0)44 931 12 20 - Email: [info@opal-holding.com](mailto:info@opal-holding.com) - [www.opal.ch](http://www.opal.ch)  
**Germany** - OPAL Associates GmbH - Lohnerhofstrasse 2 - D-78467 Konstanz - Tel.: +49(0)7531 813 00 0 - Fax: +49(0)7531 813 00 99 - Email: [info@opalgmbh.de](mailto:info@opalgmbh.de) - [www.opalgmbh.de](http://www.opalgmbh.de)  
**Austria** - OPAL Associates GesmbH - Donaufelderstrasse 101/2/8 - A-1210 Wien - Tel.: +43(0)1 270 03 13 - Fax: +43(0)1 270 03 15 - Email: [info@opalgmbh.at](mailto:info@opalgmbh.at) - [www.opalgmbh.at](http://www.opalgmbh.at)  
**France** - OPAL Associates SA - Avenue des Boveresses 54 - CH-1000 Lausanne - Tel.: +41(0)21 653 95 00 - Fax: +41(0)21 653 95 02 - Email: [info@opal-holding.com](mailto:info@opal-holding.com) - [www.opalsa.ch](http://www.opalsa.ch)  
**Denmark** - OPAL Associates ApS - Plutovej 7 - DK-8722 Hedensted - Tel.: +45 7674 1510 - Fax: +45 7589 2733 - Email: [info@opalaps.dk](mailto:info@opalaps.dk) - [www.opalaps.dk](http://www.opalaps.dk)  
**Weitere Standorte:** München, Hamburg, Frankfurt, Darmstadt, Bregenz, Lyon

[www.opal-holding.com](http://www.opal-holding.com)