

# VC5090

## Vehicle/Fixed Mount Mobile Computer



### FEATURES

**Common Motorola architecture with Intel XScale® PXA270 @ 624 MHz and Windows CE 5.0 Professional**

Easily leverage applications developed for other Motorola rugged mobile computers; support for a wide range of applications, realtime processing and data storage needs

**Integrated 802.11a/b/g WLAN**

Seamless integration with your existing WLAN for powerful realtime data visibility

**Rugged construction: 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

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

The VC5090 Vehicle/Fixed-Mount Mobile Computer from Motorola 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 Motorola 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 Motorola's leading rugged mobile computer line. The shared hardware and software architecture enable the VC5090 to integrate seamlessly into your existing Motorola infrastructure. Applications developed for other Motorola 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 Motorola's Mobility Services Platform (MSP) enables you to quickly and easily deploy, provision, track and support all your VC5090 devices, 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, Motorola offers Service

## SPECIFICATION SHEET

VC5090  
Vehicle/Fixed Mount Mobile Computer

### Eligible for Service from the Start with Comprehensive Coverage

Contract extends normal wear and tear to cover accidental damage to displays, touchscreens and internal components; reduces repair costs

### Standard heater on all models at no extra cost

Reliable operation in freezer/cold store/outdoor environments as low as -22° F/-30° C

### MSP compatible

Easy and cost-effective centralized remote management

### Internal antennas and support for external antenna

Ensures robust wireless connectivity, even in challenging environments

### WPAN: Bluetooth v1.2

Support for wireless printing and cordless scanning

from the Start with Comprehensive Coverage. This unique offering covers normal wear and tear, as well as accidental damage to displays, touchscreens, keyboards and more at no extra charge — virtually eliminating your unforeseen repair expenses.

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 26.9 cm L x 30.9 cm W x 11.4 cm D <i>Half screen:</i> 11.28 in. L x 12.2 in. W x 5.04 in. D 28.65 cm L x 30.9 cm W x 12.8 cm D
Weight:	<i>Full screen:</i> 14.5 lbs./6.85 kg <i>Half-screen:</i> 16.31 lbs./7.4 kg
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 <i>Half screen:</i> Color 10.5 in. half-SVGA 800x320 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
Memory (RAM/ROM):	128MB SDRAM/192MB Flash
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
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### User Environment

Operating Temp:	-22° to 122° F/-30° to 50° C
Storage Temp:	-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

### Wireless Data Communications

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; 802.11g: up to 54 Mbps
Antenna:	Two internal diversity antennas; external antenna connector
Frequency Range:	All country dependent: 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 WPAEnterprise 802.1x security supplicants
WPAN (Bluetooth Support):	Bluetooth Version 1.2

### Regulatory

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.



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