



## LIFT TRUCK-MOUNTED MOBILE COMPUTER

# MOTOROLA VC6090

### THE IDEAL FORM FACTOR VEHICLE COMPUTER FOR SMALL FORKLIFT

The VC6090 provide size and weight optimization to any tight-spaced lift trucks, carts and other vehicles.

### READY FOR TERMINAL EMULATION

With pre-loaded and pre-licensed Wavelink Terminal Emulation and with the large-keys Integrated QWERTY keyboard, the VC6090 is ready for use out of the box.

### ROBUST WIRELESS CONNECTIVITY INSIDE THE FOUR WALLS

The Wi-Fi 802.11a/b/g radios supported with integrated antenna enable the easy connection to any available WLAN, providing cost-effective wireless data and voice communications when drivers are inside the enterprise campus.

### EASY TO USE

The VC6090 is equipped with easy-to-use technology that virtually eliminates the need for training. The 6.5 inch VGA display is easy to see in practically any lighting condition — from total darkness to bright sunlight, even when viewed through polarized sunglasses. The touchscreen display enables easy data input — even with gloved hands. Microsoft® Windows® Mobile provides a familiar interface as well as compatibility with many of today's mobile applications. And programmable soft keys can provide single-key simplicity for frequently repeated tasks.

### REDUCE COMPLEXITY OF MOBILITY

Integrated data and voice simplifies life for your drivers... and your IT staff. Part of Motorola's leading rugged mobile computer line, the VC6090 offers the shared hardware and software architecture required to integrate seamlessly into your existing Motorola infrastructure. Applications developed for other Motorola rugged mobile computers can be easily ported to the VC6090, dramatically reducing software development and training requirements, and increasing the return on investment for existing applications.

### ENTERPRISE CLASS MANAGEABILITY

With the addition of Motorola's Mobility Services Platform (MSP), while you remain in control of your mobile devices. MSP allows you to quickly and easily deploy, provision, track and troubleshoot all your VC6090 and Motorola handheld mobile computers right over the air, all from a central location — bringing an unprecedented level of simplicity and low cost to the management of mobile devices.

### END-TO-END SERVICES KEEP YOUR VC6090 MOBILE COMPUTERS UP AND RUNNING AT PEAK PERFORMANCE

Take advantage of 'from the manufacturer' expertise with Motorola's Enterprise Mobility Services. To help protect your investment, Motorola recommends Service from the Start with Comprehensive Coverage. This unique service covers normal wear and tear, as well as internal and external components damaged through accidental breakage — significantly reducing your unforeseen repair expenses. And options such as Express Shipping and Fastrack help to further minimize downtime in the unlikely event your device requires repair.

## FEATURES

### Small form factor

Low width and height and thin design for minimal driver obstruction and maximum space utilization

### Rugged construction: IP64-sealed, aluminum rear housing and MIL-STD-810F military ratings

Designed to withstand the most extreme environments including lift truck mounting use cases, protects your investment; dramatically reduces downtime and repair costs

### Integrated large keys keyboard

Offers programmable, navigation keys with tactile feedback and integrated QWERTY keyboard with large keys ideal for gloved hands, all backlit

### 500 Nit bright 6.5 inch color VGA resistive touchscreen display (640 x 480)

Easy to view practically in any lighting conditions

### Common Motorola architecture with XScale® PXA270 @ 624 MHz and Microsoft Windows Mobile 6.5 Classic

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

# VC6090 SPECIFICATIONS CHART

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS	
Dimensions	9.53 in. H x 9.25 in. W x 1.95 in. D 24.2 cm H x 23.5 cm W x 4.95 cm D
Weight	4.85 lbs./2.2 kg
Keyboard	Integrated full backlit QWERTY, 65-key with tactile feedback and audible key beep
Power	Direct 10V to 33Vdc, with ignition sense for gas/diesel-powered lift truck with 12V or 24V battery or With external 18-75V DC/DC converter for electric-powered lift truck with 24V, 36V or 48V battery or With 100-240VAC power supply for AC-powered carts
Soft Keys	Five: user programmable
Display	6.5 in. color VGA (640x480) 500 Nit
Touchscreen	Resistive
Interface Ports	(2) USB 1.1 host Type A connectors, (one with up to 1A output) (1) USB 1.1 device Type mini-B connector (1) 10/100 Base-T Ethernet port (1) 50 pin auxiliary port to support*: (2) full RS-232 connections (8) digital inputs (switch to ground or switch to vehicle battery voltage) (8) digital outputs (relay driver, 200mA drive capability) (2) analogue inputs, up to 34V maximum
Expansion Slot	SD Slot, SDHC, up to 32GB
Audio	Volume control
Speaker	Internal, front-mounted, 1W
Microphone	Internal, front-mounted
Antennas	Non-protruding Internal WLAN and internal Bluetooth antennas
PERFORMANCE CHARACTERISTICS	
CPU	XScale™ PXA270 624 MHz processor
Operating System	Microsoft® Windows Mobile® 6.5 Classic Edition
Memory (RAM/ROM)	128MB SDRAM and 256MB Flash
USER ENVIRONMENT	
Operating Temp.	-4° to 140° F/-20° to 60° C
Storage Temp.	-40° to 140° F/-40° to 60° C
Relative Humidity	Up to 95% non-condensing at 50° C
Environmental Sealing	IP64 (dust tight and able to withstand splashing from any direction)
ESD	±15kV air discharge, ±8kV direct discharge
Vibration	MIL-STD 810E, Method 514.4, Ground Mobile (VIII)

Mechanical Shock	MIL-STD 810E 516.4, Procedure 1 – Functional Shock
Crash Hazard	MIL-STD-810E, 516.5 Proc VI
Thermal Shock	-40° F to +176° F/-40° C to +80° C
Salt Fog	MIL-STD 810F (survives eight hours of 5 percent salt solution fog at 35° C)
Solar Radiation	MIL-STD 810E, Method 505.3, Procedure I
Altitude	Operating range: 1,200 ft./365 m below sea level to 15,000 ft./4,572 m above sea level

## WIRELESS DATA COMMUNICATIONS

WLAN <sup>1</sup>	802.11 a/b/g with internal antenna
WPAN (Bluetooth)	Class II, v2.0 EDR, 3 Mb/s
APPLICATIONS	
MSP	Motorola's Mobility Services Platform
Terminal Emulation	Wavelink TE (pre-loaded and pre-licensed) with Screen Reformatter and Speakeasy

## ACCESSORIES

18-75V DC/DC converter, fused
DC Power cable for 18-75V DC/DC converter
10-33V DC power cable, fused
RAM mount bracket with C-size (1.5") ball
RS232 and GPIO cable
100-240VAC power supply
Vehicle power adapter (cigarette lighter adapter)

## REGULATORY

Environmental	RoHS/WEEE compliant
Electrical Safety	UL/cUL 60950-1, IEC EN 60950-1
Product Flammability	IEC UL94-V0
WLAN and Bluetooth	USA: FCC Part 15.247, 15.407; Canada: RSS-210; EU: EN 300 328, EN 301 893
RF Exposure	USA: FCC Part 2, FCC OET Bulletin 65 Supplement C; Canada: RSS-102; EU: EN 50360
EMI/RFI	North America: FCC Part 15, Class B; Canada: ICES 003 Class B; EU: EN55022, EN 301 489-1, EN 301 489-7, EN 301 489-17, EN 301 489-19, EN 301 489-24
For countries outside USA, Canada and European Union, consult your local Motorola representative.	

\* Limitations may apply when using DC/DC power converter

\*\* Compatible with Motorola DS35x8-ER full range scanners with standard USB cable.

<sup>1</sup> It supports government grade FIPS 140-2 WLAN encryption

## Integrated 802.11a/b/g WLAN

For seamless integration with your existing WLAN for powerful real-time data visibility with integrated internal antenna

## Flexible Mounting

Offers light weight and VESA100 mounting compatibility for flexible mounting solutions

## Pre-loaded, Pre-licensed Terminal Emulation

Offers out-of-the-box terminal emulation solution

## MSP compatible

Easy and cost-effective centralized remote management

## USB Connectivity\*\*

Provides 2 USB host ports to connect a corded bar code scanner and for a service memory stick. Another USB Client port is provided for ActivSync

## RS232 and GPIOs connectivity

Provides 2 RS232, 8 Digital Inputs, 8 Digital Outputs and 2 Analog Inputs for building flexible solutions

## WPAN: Bluetooth® v2.0, Class II with EDR

Wireless connectivity to cordless Bluetooth bar code scanners

## 128MB RAM/256MB Flash

Provides memory space required to enable robust performance for database applications

## User accessible SD card slot

Provides additional memory and expandable functionality

For more information on the VC6090, please visit us on the web at [www.motorolasolutions.com](http://www.motorolasolutions.com) or access our global contact directory at [www.motorola.com/enterprisemobility/contactus](http://www.motorola.com/enterprisemobility/contactus)