

# WT4000 Series

## Wearable Terminal



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### FEATURES

#### Hands-free design

Enables workers to easily handle objects while interacting with the mobile computer

#### High-performance platform

Provides the power to run nearly any enterprise application

#### 802.11 a/b/g WLAN

Provides up-to-the minute information through real-time processing that improves decision making, reduces errors, and enhances customer satisfaction

### Enhance worker efficiency and productivity with rugged, high-performance, hands-free mobile computing and scanning

The WT4000 Series Wearable Terminal from Motorola empowers warehouse and package handling workers to achieve new levels of efficiency, productivity and accuracy by bringing the most advanced computing and scanning technology to their fingertips in an ergonomic, wearable design. The hands-free system offers maximum flexibility, with headset support for voice picking, as well as mix and match connectors on either side of the device enabling the right- or left-handed scanning. The robust system delivers the kind of dependability you need for every-day all-day operation, offering the latest in mobile operating systems and processing power in a rugged design to endure the most demanding environments — from the dusty warehouse floor to the cooler and freezer, or to a postal sorting area. Connectivity to virtually any wireless LAN provides a critical always-on connection to your business systems. Accuracy is increased in picking operations since workers can receive instant feedback if the wrong item is selected, reducing the costs associated with erroneous shipments.

### A flexible computing and scanning platform for every warehouse environment

The WT4000 Series wearable system provides a single scanning platform that can support many applications. The system supports voice-only,

text-only and combination voice and text, and can be worn comfortably on either the wrist or the hip. Two scanning options offer support for near and far scanning — the lightweight RS409 ring scanner, and the freezer-ready back-of-the-hand RS309. Using the same device, voice-based picking can be employed to improve picking speed, while text-based capabilities stand ready to display information and allow keyed input for more precise picking as well as error and exception handling, across the wide range of warehouse temperatures. Both scanners offer the high level of scanning performance that is synonymous with the Motorola name, including the ability to scan poorly printed or damaged bar codes. This complete hands-free system provides a common platform for warehouse operations that eliminates the need to purchase, deploy, support and manage multiple devices, effectively reducing capital as well as operational expense.

### Maximum uptime, return...and value

When you need maximum value from your warehouse technology investments, the WT4000 Series wearable system delivers. Designed from Motorola's extensive experience gained from over 30 years as the market leader in bar code scanning and over 10 years in designing, selling and supporting wearable mobile computing products, the WT4000 Series represents the latest in hands-free wearable solutions. Upgraded ergonomics improve user comfort and safety, increased durability covers a wider range of

**IP54 sealing; 4 ft./1.2 m drop specification across entire operating temperature range**

Rugged design ensures dependable operation in challenging warehouse environments, including the cooler and the freezer; reduces device replacement costs; maximizes uptime

**Flexible platform offers support for hands-free text and voice-based picking**

Eliminates effort and cost associated with purchasing and supporting multiple systems for different applications

**Designed for wide temperature ranges**

Ensures operation in a wide range of warehouse temperatures, including -20°C in freezers

**Ergonomic design**

Ensures user comfort and worker safety to increase productivity and decrease possibility of injury

**2.8 in. color QVGA display with backlight**

Excellent at-a-glance readability in nearly any lighting condition

enterprise warehouse environments, and new features simplify operation and help increase worker productivity. And since even rugged devices need a support plan, Motorola offers Service from the Start with Comprehensive Coverage to help protect your investment. This unique offering covers normal wear and tear, as well as accidental damage to displays, keypads, and other internal and external components at no extra charge — significantly reducing your unforeseen repair expenses. The

result is maximum uptime, maximum product life and streamlined operations, delivering a rapid return on investment — and a low total cost of ownership.

For more information on how your enterprise can benefit from the WT4000 Series and its full line of accessories, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the web at: [www.symbol.com/WT4000](http://www.symbol.com/WT4000)

## WT4000 Series Specifications

Physical and Environmental Characteristics	
Dimensions:	5.7 in. L x 3.7 in. W x 1.0 in. H 142 mm L x 93 mm H x 26 mm H
Weight:	Terminal w/ Standard Battery: 11.3 oz. (8.4 oz. + 2.9 oz.) 320.3 gm (238.1 gm + 82.2 gm) Holder: 2.5 oz./70.9 gm (includes straps and cushion)
Keyboard:	23 key alpha-numeric with two orderable options for alpha entry: legacy color-coded alpha entry; cell phone-like alpha entry
Display Type:	Backlit color TFT, no touch screen
Display Resolution:	QVGA in landscape mode (320 x 240)
Power:	Rechargeable Li-ion battery 2,330 mAh @ 3.7 VDC
Performance Characteristics	
Processor:	Intel XScale PXA270 @ 520 MHz
Operating System:	Microsoft Windows CE 5.0 Professional Version
Memory (FLASH/RAM):	64 MB/128 MB
Application Development:	Microsoft IDEs and Motorola SDKs
Data Capture Options:	Wearable scanner RS309 and RS409 are optional accessories
Voice Recognition:	Can run voice recognition engines and text-to-speech engines for voice picking applications
Communications over charging connector:	USB (Host and Client)
Audio Options:	AC97 Compatible Codec to play audio over speaker or headset
User Environment	
Operating Temp.:	-4° to 122° F/-20° to 50° C
Storage Temp.:	-40° to 158° F/-40° to 70° C
Humidity:	5% to 95% non-condensing
Drop Spec:	Multiple drops to concrete: 4 ft. (1.2 m) across the operating temperature range

Tumble Spec:	500 one-half meter tumbles at room temperature (1,000 drops)
Ambient Light Immunity:	Indoor – 450 ft. candles (4,844 lux) Outdoor – 10,000 ft. candles (107,640 lux)
Sealing:	IP54 Category 2
Electrostatic Discharge (ESD):	EN61000-4-2 15kV Air, 8kV contact, 8kV indirect
Wireless Data Communications	
WLAN:	WT4070 - IEEE 802.11b/g; WT4090 - 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:	Internal
Frequency Range:	All country dependent; typically 2.4 to 2.5 GHz for 802.11b & g; 5.0 GHz for 802.11a
WPAN:	Bluetooth 1.2
Peripherals and Accessories	
Cradles:	Single-slot USB charging cradle with spare battery well; Four-slot Ethernet charging cradle
Printers:	Supports extensive line of approved printers
Charger:	Four-slot battery charger
Mounts:	Wrist-mount and hip-mount accessories available
Other Accessories:	Headset adapter to a 2.5 mm barrel jack headset connector
WPAN:	Bluetooth 1.2
Regulatory	
Electrical Safety:	Certified to UL60950-1, CSA C22.2 No. 60950-1, EN60950/IEC 60950-1 + all national deviations
EMC:	FCC Part 15 Subpart B, ICES-003 Class B, EN 60601-1-2, EN 61000-3-2, EN 61000-3-3, CISPR 22 Class B, CISPR 24
RF:	FCC Parts 15.247, 15.407, 15.205, 15.207, 15.209, 15.203, EN 300 328, EN301 893, RSS-100, RSS-210, ARIB STD-66 & 33, ARIB STD-T70 & 71

\*NOTE: 802.11a is not available in this product in Thailand

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