The Motorola WT4090 VOW

Voice Only Wearable Terminal

WT4090 VOW FEATURES

Rugged voice-dedicated task-specific tool
Easy-to-use rugged tool for voice-directed applications

Hands-free design
Enables workers to easily handle objects while interacting with the mobile computer

High-performance platform
Provides the same high-power processing as WT4090 full-capability mobile computer

802.11a/b/g WLAN
Ability to connect to virtually any wireless LAN for easy and rapid integration into the existing networking architecture

Wide temperature range — 122° F to -4° F/50° C to -20° C (-22° F/-30° C with an optional freezer pouch)
Dependable operation in extreme heat and cold — ideal for coolers and freezers

Superior WLAN performance
Support for advanced roaming, quality of service and many other Motorola WLAN features delivers a dependable data connection

IP54 sealing; 4 ft./1.2 m drop specification across entire operating temperature range
Rugged design ensures dependable operation in the most challenging conditions; reduces device replacement costs; maximizes uptime

Support for voice-recognition, text-to-speech engines and Voice-over-WLAN (VoWLAN)
Easy to develop and deploy voice-directed applications

Secure WLAN communications
Robust support for the latest security protocols enables secure data transmission throughout the enterprise

Compatibility with Motorola's Wearable Scanners
Easily expand functionality with robust bar code scanning for superior future proofing and investment protection

Compatible with Motorola's RCH50 lightweight, rugged and affordable headset
Provides an end-to-end cost-effective and complete voice-directed platform

Improve productivity and reduce errors in the warehouse with hands-free voice-directed mobile computing and scanning

Motorola's rugged WT4090 VOW offers the comprehensive wireless network connectivity, high-power processing and rich voice capability required to put high-performance hands-free voice-directed applications in the hands of your warehouse workers. Robust voice features include support for voice recognition, text-to-speech engines and superior Voice-over-WLAN (VoWLAN) performance. Support for 802.11a/b/g enables easy integration with virtually any wireless LAN. Three fully programmable keys keep operation simple. The 4600 mAH battery ensures full shift operation — even in the coldest of freezers. Flexible hip or wrist mounting ensures all-day comfort for users. The WT4090 Series accessory ecosystem enables the creation of end-to-end solutions. Pair with the application developer's recommended headset — such as Motorola's RCH50 rugged yet lightweight cabled headset — for a complete voice-directed solution. Compatibility with our family of cordless and corded wearable scanners enables the addition of Motorola's world-renowned 1D/2D bar code scanning functionality, providing superior future proofing — and investment protection. And a unique support program, Motorola's Service from the Start with Comprehensive Coverage, provides true service peace of mind, offering coverage for normal wear and tear as well as accidental damage to internal and external components at no extra charge — significantly reducing your unforeseen repair expenses.

For more information on how your enterprise can benefit from the WT4000 Series and its full line of accessories, please visit us on the Web at www.motorola.com/wt4090vow or access our global contact directory at www.motorola.com/enterprisemobility/contactus

WT4090 VOW 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 W x 26 mm H
Weight:	Terminal ships with extended battery: 12.2 oz. (7.5 oz. + 4.6 oz.) 346.0 g (214.3 g + 131.7 g)
Keyboard:	3 software-programmable keys
Power:	Extended rechargeable Li-ion battery 4,600 mAh @ 3.7 VDC

Performance Characteristics

Processor:	Intel XScale™ PXA270 @ 520 MHz
Operating System:	Microsoft Windows CE 5.0 Professional Version
Memory:	128 MB/128 MB RAM
Application Dev:	Microsoft IDEs and Motorola SDKs
Data Capture Options:	Wearable scanners: RS507, RS309 and RS409 are optional accessories
Voice Recognition:	Can run voice recognition engines and text-to-speech engines for voice-directed 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° F to 122° F/-20° C to 50° C
Storage Temp.:	-40° F to 158° F/-40° C 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; meets MIL-STD-810G with 6 ft./1.8 m drops
Tumble Spec:	500 one-half meter tumbles at room temperature (1,000 drops)
Sealing:	IP54 Category 2
Electrostatic Discharge (ESD):	EN61000-4-2 15kV Air, 8kV contact, 8kV indirect

Wireless Data Communications

WLAN:	IEEE 802.11a/b/g
Security:	WEP2 (40 or 128 bit), TKIP, TLS, TTLS (MS-CHAP), TTLS (MS-CHAP v2), TTLS (CHAP), TTLS-MD5, TTLS-PAP, PEAP-TLS, PEAP (MS-CHAP v2), AES, LEAP, CCX v3
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 antenna with spatial diversity
Frequency Range:	All country dependent; typically 2.4 to 2.5 GHz for 802.11b and 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:	RCH50 rugged headset; headset adapters and freezer pouches that extend operating temperature range

Regulatory

Electrical Safety:	Certified to UL60950-1, CSA C22.2 No. 60950-1, EN60950/IEC 60950-1 plus 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

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