

# VH10 SERIES

## PRODUCTIVITY. INGENUOUSLY ENGINEERED.

Every day, the workers in your forklifts and other material handling equipment are under pressure to move more product in, through and out of the warehouse to meet customer demands. It will take a new level of efficiency. It will take a new level of accuracy. It will take the VH10. The VH10 is built to provide the real-time information this workforce needs to get the job done fast and right – in your warehouse aisles, out in the yard or in a freezer. You get productivity, ingeniously engineered — with all the features you need for truly flawless fulfillment in your most demanding environments.



### **Maximize uptime and minimize TCO with field serviceability**

Replace the two elements that are most vulnerable to damage in minutes, right in your facility — the keyboard and touchscreen — no need to send to a service depot.

### **Freezer-ready for the coldest supply chain**

With the VH10f you get true frost and condensation free operation in freezers with touchscreen and board heaters, smart temperature sensors that automatically control the heaters and heating speed, an elastomeric keyboard that works despite icing and more.

### **Backwards compatibility for cost-effective upgrades**

Use the same mounts, accessories and applications you have today for your prior Zebra vehicle mount mobile computers, allowing you to cost-consciously upgrade to the latest technologies to improve productivity, customer service and satisfaction.

### **Fits in virtually any material handling vehicle**

Multiple mounting options, including standard RAM mounts and a 10-second quick release mount, plus a compact size make mounting easy, even in the smallest vehicles.

### **Flexible wireless connectivity options**

Only Zebra offers support for Wi-Fi and Narrowband, bringing you the best of both worlds. Support for 802.11a/b/g/n Wi-Fi provides compatibility with virtually any wireless LAN and plenty of bandwidth to support the modern graphical user interfaces of today's demanding applications. Narrowband support provides robust, affordable and secure wireless connectivity for simple data transactions in expansive outdoor areas such as seaports, rail yards, airports and expansive outdoor yards in manufacturing plants — regardless of the presence of obstacles that typically create coverage holes, such as metal containers, liquids or even other 2.4 GHz wireless networks.

### **Easily customize to meet your specific business needs**

Add a Zebra corded or cordless scanner for fast and accurate capture of any bar code — even codes that are dirty or damaged. Add a push-to-talk microphone to enable instant voice communications with vehicle operators.

**GET MAXIMUM PRODUCTIVITY AND FLAWLESS FULFILLMENT WITH THE VH10.**

FOR MORE INFORMATION, VISIT [WWW.ZEBRA.COM/VH10](http://WWW.ZEBRA.COM/VH10) OR ACCESS OUR CONTACT DIRECTORY  
AT [WWW.ZEBRA.COM/CONTACT](http://WWW.ZEBRA.COM/CONTACT)

# VH10 Specifications

## PHYSICAL CHARACTERISTICS

Dimensions	10.87 in. W x 9.37 in. H x 3.54 in. D 276 mm L x 238 mm W x 90 mm D
Weight	8.1 lbs./3.66 kg (includes integrated UPS battery)
Construction	Cast aluminum; modular
Keyboard Options	Integrated full alpha numeric keyboard with 67 keys; QWERTY and AZERTY; 12 direct function keys; LED backlight
Power	Internal power supply 12-48V nominal, designed for forklift power; standard 5 min super capacitor backup; one week real-time clock backup
Optional UPS Battery	Optional internal 5000 mAh rechargeable battery for operation during power loss/brown out provides 15 minutes session persistence at a minimum during forklift battery swap
Display	8 in. color: 800 x 480; brightness 640 NITS; LED backlight
Display Defroster	VH10f Model: Heated touch screen evaporates external condensation when moving out and in freezers
Touch-screen	Rugged 5-wire technology; provides high “touch life” for heavy use; passive stylus or finger operation
Interface Ports	2 USB host ports (one on the top, one on the bottom) 1 powered USB host port with 12V/1.5A 1 3.5 mm audio jack 2 full function UART RS-232 with 5V/1000mA for external devices
Mounting	Quick release mount; standard RAM mounts; adapters for legacy mounts; heavy duty mount; cantilever mount
Audio	High volume 93dBA beeper Optional push-to-talk speaker/microphone

## PERFORMANCE CHARACTERISTICS

CPU	TI OMAP 3, 800 MHz
Operating System	Windows™ CE 6.0
Memory	512MB RAM and 1GB Flash
Bundled Applications	Internet Explorer 6; Windows Mobile Device Center; Wordpad; ActiveSync
Terminal Emulation	TekTerm; Wavelink; Stay-Linked; Naurtech
Additional Software	SOTI MobiControl; Kiosk Mode; Total Recall; Active Remote Configuration (A.R.C.)
Application Development	Software Development Kit

## USER ENVIRONMENT

Operating Temp.	-22° to 122° F/-30° to 50° C
Storage Temp.	-22° to 140° F/-30° to 60° C
Humidity	5% to 95% RH condensing with internal heating
Sealing	IP66
Integrated Sensors*	Motion (accelerometer); temperature; ignition
ESD	±15kV air discharge, ±8kV direct discharge
Shock/Vibration	IEC 60721-3-5M3
Thermal Shock	-22° to 122° F/-30° to 50° C
Salt Fog	48 hours of 5% solution at 35° C
Solar Radiation	MIL STD 810-G, Method 505.5, Procedure II

## WIRELESS DATA COMMUNICATIONS

WLAN	IEEE 802.11a/b/g/n
Narrowband	UHF bands: 403 – 470 MHz Channel Spacing: 12.5 - 25 kHz RF power: 500 - 1,000mW; Transmission speed: 4.8/9.6 kbps @ 12.5 kHz, 9.6/19.2 kbps @ 25 kHz
Antenna	Internal or external 2.4 and 5 GHz antennas; external Narrowband antenna
WPAN	Bluetooth™ V2.0 + EDR

## SUPPORT AND SERVICES

Zebra OneCare Select; Zebra OneCare Essential.
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## ACCESSORIES

Accessories include: Pre-regulator; antennas; screen protector; push-to-talk speaker/microphone; mounts; USB Ethernet adapter (For a complete list of accessories, visit <a href="http://www.zebra.com/vh10">www.zebra.com/vh10</a> )
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## REGULATORY

Electrical Safety	UL/cUL/IEC/EN 60950-1 Indoor use
EMI/RFI	North America: FCC Part 15, Class B Canada: ICES 003 Class B EU: EN55022, EN 301 489-1, EN 301 489-17
WLAN/Bluetooth h	USA: FCC Part 15.247, 15.407 Canada: RSS-210 EU: EN 300 328, EN 301 893
Environmental	RoHS/WEEE/REACH compliant
Flammability	IEC UL94-VO

## Ideal For These Applications:

### Industries

- Warehousing
- Transportation
- Manufacturing

### Environments

- Warehouses
- Cold storage/freezer
- Indoor and outdoor yards
- Airports
- Intermodal terminals (such as seaports and railway yards)

## WARRANTY

Subject to the terms of Zebra's hardware warranty statement, the VH10 Series is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For complete warranty statement, go to: [www.zebra.com/warranty](http://www.zebra.com/warranty)

\* Narrowband models do not support Motion Sensor (accelerometer).