VC8300 Vehicle Mount Computer

The ultimate ultra-rugged Android™ keyboard/touch vehicle mount computer

Since your Windows-based vehicle mount mobile computers are near their end-of-life and support for Windows-based mobile devices is ending, you're ready to migrate to Android™. You need a rugged device that will make that migration and device management simple, easy and cost-effective. Get it all with the VC8300. Designed for the most extreme environments, the VC8300 can go everywhere your vehicle operators need to go—inside the warehouse, out in the yard, on the loading dock and even in the freezer. Run your existing 'green screen' apps right out of the box—no ramp-up time required. Re-use all of your existing accessories[1], minimizing the cost to upgrade to the latest technology. Replacement couldn't be easier—just drop it in place and you're ready to go. With Mobility DNA, only from Zebra, you get powerful features that transform Android into an easy-to-manage robust enterprise-class OS, complete with unique tools that not only boost workforce productivity, but also simplify deployment and application development. And since the same platform is shared with Zebra's rugged handheld and wearable mobile devices, virtually any worker can use any device with practically no training, providing the flexibility to deploy and re-deploy workers to address changing workloads.



The Ultimate in Android Migration Simplicity

Run Your Terminal Emulation (TE) Apps, Right Out of the Box
Since Ivanti Velocity is pre-loaded and pre-licensed, you can run your TE apps right out of the box—no backend modification or user training required.

The Best of Both Worlds: Large Touchscreen and Keyboard
When it comes to data input, the VC8300 offers complete flexibility. The integrated full alphanumeric keyboard gives your workers the same familiar key-based interaction they use today—no change to workflow required. And the touchscreen allows you to integrate touch into your apps whenever you're ready.

Automatically Migrate Your TE Apps to Interactive Android Apps
When you're ready to transform your TE key-based apps to Android interactive apps, All-touch TE makes it easy. With this pre-loaded Zebra-only Mobility DNA application, just press a button to change TE 'green screens' to fully interactive Android screens that can be easily customized with All-touch TE tools—all without any coding.

The Ultimate Android Platform for Business

Easy Viewing Indoors or Outside
The 8-inch display provides plenty of space for graphics-intensive, interactive applications, while best-in-class display resolution and brightness ensure easy viewing in any lighting condition. And the capacitive touch screen is easy to use, even with gloves.

Maximum Power for Maximum Application Performance
Get all the power you need to ensure superior performance with the ultra-powerful 8-core processor, plus up to eight times the RAM and 32 times the Flash memory of prior generation devices. And memory lasts 10 times longer through an advanced memory architecture.

A Lifetime Security Guard for Android
With LifeGuard™ for Android™, you get the security updates you need to keep your Zebra Android devices secure every day they are in service—along with easy end-to-end control of the OS update process, plus support for future versions of Android.

The VC8300—keep the keyboard, migrate to Android and meet increasing demands in the warehouse.
For more information, visit www.zebra.com/vc8300

Dependably Superior WiFi Connections
Advanced WiFi technologies extend WiFi range, increase WiFi speed and strengthen WiFi connections, providing on-the-move workers with constant application availability and near-instant application response times. Features include 2x2 Multiple-User Multiple Input Multiple Output (MU-MIMO), WorryFree WiFi—a free Mobility DNA tool and software-switchable internal or external antennas.

Bluetooth 5.0—Twice the Speed and Four Times the Range with Less Power
When it comes to the performance of your Bluetooth peripherals, you can expect the best from your cordless scanners, headsets and printers.

Easy Data Entry for Unusual Non-Standard Characters
Just press the Diamond key to pop up a configurable on-screen keyboard for fast data entry of virtually any character.

Backwards Compatible for a Cost-Effective Upgrade
Since you can use the same mounts, accessories and applications you have today for your existing Zebra vehicle mount computers, you to cost-effectively migrate to the latest technology platform to increase fulfillment speed and accuracy.

The Ultimate Ultra-Rugged Design

Built for Extreme Environments
The VC8300 is ready for your toughest environments, with dust-and-water tight IP66 sealing, sealed connectors, and extreme temperature, shock and vibration testing.

Freezer-Ready for the Coldest Supply Chains
With the VC8300, you get true frost and condensation free operation in freezers with touchscreen and internal heaters that keep the display and sensitive electronic components warm, smart temperature sensors that automatically control the heaters and heating speed, an elastomeric keyboard that works despite icing and more.

Easy to Hear in Your Loudest Environments
The very loud front-facing speaker makes it easy to hear scanner feedback and app notifications.

The Ultimate in Flexibility

Mount 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.

Add Barcode Scanning, Voice and More
Easily add whatever features your workers need, including a wide range of cordless and corded barcode scanners, mobile printers and a Push-to-Talk microphone. And with a quick scan of the pairing barcode printed directly on the VC8300, workers can instantly pair any Zebra Bluetooth peripheral.

Repairable, Right on the Spot
Replace the one element that is most vulnerable to damage in minutes, right in your facility—the keyboard—as well as the UPS battery. The result? Fewer trips to the service depot, increasing device availability and your return on investment.

New Mobility DNA Tools deliver the Ultimate in Value-Add Zebra-Only Features

WorryFree WiFi—Dependably Superior WiFi, Delivered
This free tool delivers everything you need to provide every worker with the best possible WiFi connection, every minute of every shift to boost workforce productivity and better serve customers.

Keep Android Updated Easily with Revolutionary Control
Updating your enterprise-class Android mobile devices is often time-consuming, costly, complex and difficult to track. Now it's easy with LifeGuard Analytics—free with your Zebra OneCare Support contract. View available updates along with priority and which devices are eligible for which updates. Automatically update your devices over the air with the press of a button. And easily monitor and manage the status of updates in real time.

Easily Manage Access to Google Mobile Services (GMS) with Restricted Mode
StageNow's new Restricted Mode delivers an industry first—an easy way to simply click to deactivate Google Mobile Services (GMS) that come standard with the operating system—and reactivate should you need them down the road. And StageNow is free and pre-loaded on every VC8300.

Specifications

Physical Characteristics	
Dimensions	10.87 in. W x 9.37 in. H x 3.54 in. D 276 mm W x 238 mm H x 90 mm D
Weight	8.2 lbs/3.7 kg
Display	WXGA 8 inch, color display; 1280x720, 1,000 NITs
Touch Panel	Capacitive multi touch, Corning Gorilla Glass with air gap, heater option, anti-reflective foil option
Power	10 to 60V DC isolated; Internal
Keyboard Options	QWERTY/AZERTY
Keyboard	Backlit, field replaceable, full alphanumeric, 67 keys, 12 direct function keys Diamond key pops up on-screen keyboard for additional characters
Indicators	Audible tone Power Status: Green/Amber LED Warning: Red LED
Mounting	RAM mount; quick release mount; side mounted scanner holder
Connectivity	1x Type C USB 3.0 combination host and client port; 1 x USB 2.0 host port (with strain relief and covered); 1 x standard powered USB 2.0 host port with 12V / 1.5 A (with strain relief and covered); 2 x RS-232 COM ports with power on pin 9; 1 x 3.5 mm audio jack for push-to-talk speaker/mic (with strain relief and covered); optional USB-Ethernet adapter
UPS	UPS with minimum 30-min life over the full operating temperature range
Performance Characteristics	
CPU	Qualcomm Snapdragon™ 660 octa-core 2.2 GHz
Operating System	Upgradeable to Android 14
Memory	4GB RAM/32 GB Flash pSLC
Software	Ivanti Velocity (pre-loaded and pre-licensed)
User Environment	
Operating Temp.	-22° F to 122° F/-30° C to 50° C
Storage Temp.	-40° F to 140° F/-40° C to 60° C
Humidity	5% - 95% RH condensing
Sealing	IP66
Shock/Vibration	IEC 60721-3-5M3; MIL-STD 810F; Zebra internal
Thermal Shock	-22° F to 122° F/-30° C to 50° C
Sensors	Temperature, accelerometer, gyroscope
Salt Fog	48h of 5% solution at 35° C
Solar Radiation	MIL-STD 810G Method 505.5
Electrostatic Discharge (ESD)	+/-15kV air discharge; +/-8kV contact discharge; +/-8kV indirect discharge
Data Capture	
Scanner Support	HID via USB and Bluetooth; SSI via USB and Bluetooth for DS/LI 36XX and RS6000; Serial RS232 with power on pin 9

Voice and Audio	
Audio	High volume 87dB speaker
Push-to-Talk	Optional speaker microphone
Wireless LAN	
Radio	IEEE 802.11a/b/g/n/ac/k/r; 2x2 MU-MIMO
Data Rates	5GHz: 802.11a/n/ac—up to 866.7 Mbps 2.4GHz: 802.11b/g/n—up to 300 Mbps
Operating Channels	Channel 1-13 (2412-2472 MHz): 1,2,3,4,5,6,7,8,9,10,11,12,13 Channel 36-165 (5180-5825 MHz): 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157, 161, 165 Channel Bandwidth: 20, 40, 80 MHz Actual operating channels/ frequencies and bandwidths depend on regulatory rules and certification agency.
Security and Encryption	WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP and AES); WPA/WPA2 Enterprise (TKIP and AES) - EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP, EAP-PWD FIPS 140-2 Level 1: Data in Motion and Data at Rest2
Multimedia	Wi-Fi Multimedia (WMM and WMM-PS; Including TSPEC)
Certifications	WFA (802.11n, WMM-PS, 802.11ac, PMF, WMM-AC, Voice Enterprise, WiFi Direct and WPS 2.0)
Fast Roam	PMKID caching, Cisco CCKM, OKC, 802.11r
WLAN Antennas	Switchable internal or external antennas, various magnetic mounted antennas available
Wireless PAN	
Bluetooth	Class 2, Bluetooth v5.0, Bluetooth Low Energy (BLE)

Freezer and Condensing

Selected industrial components with a wide temperature range specification
Inside and outside temperature sensors to identify condensing circumstances
Heated boards (additional resistors) to avoid inside condensation
Heated and vented UPS battery that charges/discharges over the full operating temperature range (-22° F to 122° F/-30° C to 50° C)
Heated connectors to avoid corrosion
Heater control chip to switch heaters on/off when required
Flat surface and drainage holes to avoid heavy icing on the front

Communication and Messaging

Workforce Connect PTT Express (included) provides instant push-to-talk small group communications across Wi-Fi networks. Workforce Connect PTT Pro (supported) provides a scalable network agnostic push-to-talk solution which also includes messaging, location services and two-way radio integration.

Warranty

Subject to the terms of Zebra's hardware warranty statement, the VC8300 is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For complete warranty statement, please visit: http://www.zebra.com/warranty

Markets and Applications

Environments

- Warehouses
- Manufacturing plants
- Freezers
- Outdoor yards
- Airports
- Seaports
- Railway yards

Applications

- Receiving
- Picking
- Packing
- Shipping
- Replenishment
- Cross-dock
- Work-in-Process (WIP)

Vehicles

- Sit-down forklifts
- Standing forklifts
- Enclosed forklifts
- Extended reach forklifts
- Yard mules and trucks
- Cranes
- Container bridges

Specifications (continued)

Platforming

Mobility DNA, Enterprise MDK, Standard Android SDK and SOTI for Android, Analytics Agent

Recommended Services

Zebra OneCare Essential and Select: Maximize Zebra device availability, device value and operational efficiency with these fully-featured support services that set the industry bar for support.

Zebra Visibility Services—Asset Visibility Services (AVS) and Operational Visibility Service (OVS): Options on any Zebra OneCare support contract, these services deliver the device management data needed to take device uptime, operational efficiency and return on investment to the next level.

Footnotes

1. VC8300 accessories are backwards compatible with the Zebra VC70 and Zebra VC50 vehicle mount computers.

For details related to Common Criteria support, please visit: www.zebra.com/commoncriteria

Mobility DNA

Mobility DNA solutions help you get more value out of our mobile computers by adding functionality as well as simplifying deployment and management of our mobile devices. For more information on these Zebra-only features, please visit www.zebra.com/mobilitydna

Mobility DNA is available on Android only. Features may vary by model and a Support Contract may be required. To learn what solutions are supported, please visit: https://developer.zebra.com/mobilitydna



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