VC8300 10-inch

The ultimate utra-rugged all-tough Android vehicle mount computer for the warehouse

It's time to replace your aging large screen Windows vehicle mount mobile computers. And since support for Windows-based mobile operating systems (OS) has ended, it's time to migrate to Android. You want the same large screen, the very latest mobility platform for future-proofing and features that will make the transition to a completely different OS as painless as possible. The VC8300 10-Inch delivers it all. This right-priced, cost-effective purpose-built device marries Zebra's cutting edge Android platform with the large screen format of Zebra's VC80x, complete with pre-licensed and pre-loaded Zebra Mobility DNA tools that make it easy to migrate your applications to Android. The result? A seamless and fast transition to Android that doesn't disrupt your workflows — or impact workforce productivity. And if you use other Zebra mobile devices in other areas of your business, such as handheld or wearable mobile computers, scanners or printers, you can count on rock solid interoperability.

The ultimate in screen size and function

A large 'right-sized' 10-inch display
The 10-inch screen offers plenty of space to display information and interactive applications.

A modern touchscreen with all the right features
The capacitive touchscreen delivers a superior user experience. Multi-touch support for familiar gestures simplifies interactions with applications.

Screen contrast and clarity are increased, making application screens sharper and easier to read. And workers can use a bare or gloved finger for input.

Fits in virtually any material handling vehicle
Multiple mounting options include standard RAM mounts for easy installation anywhere in the vehicle, enabling fast and easy low-cost replacement of legacy devices. And a quick 10-second release makes it easy to move during vehicle maintenance and device repair.

The ultimate in easy and cost-effective migration

Run today's Terminal Emulation (TE) apps, right out of the box
Since Zebra Mobility DNA's All-touch TE powered by Ivanti Velocity is pre-loaded and pre-licensed, TE apps run right out of the box — no backend modification or user training required.

Easily transform TE apps to elegant interactive Android apps
Take advantage of the power of Android whenever you're ready. With All-touch TE pre-loaded and ready to use, just press a button to transform TE 'green screens' to fully interactive Android screens that can be used 'as is' or easily customized with All-touch TE tools — all without any coding.

Backwards accessory compatibility
Use the VC80x and other accessories you already own, maximizing your current accessory investment to minimize the cost of upgrading.

The VC8300 10-Inch: everything you need to easily migrate to Android vehicle mount mobile computers in your warehouse vehicles.
For more information, visit www.zebra.com/vc8300

The ultimate in future proofing

Built-in lifetime security support

Secure your devices every day they are in service with Zebra Mobility DNA's LifeGuard™ for Android™. Included with every Zebra OneCare contract at no extra cost, LifeGuard provides the Android security updates needed to protect your devices, data and network, with options that put you in charge of how, when and where updates take place. And with built-in support through Android 14, the devices you buy today will support the features in the operating system versions of the future.

Ready for next generation Warehouse Management Systems

Since the VC8300 is based on Android, you're ready for the new wave of Android-based Warehouse Management Systems (WMS).

Ultra-rugged for your toughest environments

Built for extreme environments

The VC8300 10-Inch is ready for your toughest environments, with dust-and-water tight IP66 sealing, sealed connectors, a clean flat front that won't catch dust or water, plus extreme temperature, shock and vibration testing.

Freezer-ready for the coldest supply chains

The VC8300 10-Inch offers true frost and condensation free operation with touchscreen and internal heaters that keep the display and sensitive electronic components warm and dry, smart temperature sensors that automatically control the heaters and heating speed, a heated Uninterruptable Power Supply (UPS) and more.

Best in class connectivity for superior voice and data communications

Superior in-vehicle Wi-Fi coverage

Zebra's Fusion Wi-Fi radios are in a class of their own, loaded with features that deliver superior performance in moving warehouse vehicles — and the persistent connectivity that enables maximum worker productivity. Fine-tune Wi-Fi coverage in your specific environment with software-switchable internal or external antennas. And the 2x2 Multiple-User Multiple Input Multiple Output (MU-MIMO) technology boosts Wi-Fi network capacity, speed and range, allowing you to deliver faster service to more users over a wider coverage area — all with your current Wi-Fi infrastructure.

Get more for less with Bluetooth 5.0 Dual Mode

Get twice the speed, four times the range and more flexibility — all with less power. Support for both Bluetooth protocols — Bluetooth Low Energy (BLE) and Bluetooth Classic — enables connectivity to the universe of Bluetooth peripherals, including headsets, handheld scanners and printers that can direct users via the fastest route to the next pick location. And instantly connect to Zebra scanners and printers with a quick scan of the pairing barcode on the peripheral.

Fail-safe voice and data connectivity

If the host vehicle powers down unexpectedly, no worries. The integrated UPS provides 30 minutes of battery power over the full operating temperature range — even in the freezer. The standard heated and vented battery keeps the VC8300 10-Inch up and running over the full device temperature range under any truck power down circumstances.

Wide Band Audio for high-performance voice applications

Deploying voice-directed applications? With Wide Band Audio, every word is crisp and clear, ensuring that your app understands every word the first time it's spoken, boosting worker productivity and task accuracy.

Simplify the end-to-end device lifecycle with Mobility DNA

Maximize user productivity and minimize IT complexities

When you invest in a mobile device, you need more than just great hardware — you need great software. And Zebra's Mobility DNA delivers. This suite of built-in software applications, utilities and tools simplify every stage of your device's lifecycle — from software integration, device security, device deployment and device management to leveraging your devices to optimize workflows. The result? You'll achieve and accelerate greater business outcomes, enriching the value your Zebra devices deliver, while lowering total cost of ownership.

Capture barcodes right out of the box

DataWedge allows you to capture and send barcodes right to your applications — no coding or application changes required.

Control feature and app access

Ensure devices are used only for work with Enterprise Home Screen, which allows you to define which device features and applications users can access.

Fast and easy staging

Instantly stage a handful or thousands of devices with a quick scan of a barcode or via a plug-in USB drive with StageNow.

Superior Wi-Fi performance

Take WLAN performance to the next level with WorryFree Wi-Fi.

Improve collaboration with instant push-to-talk (PTT)

With the optional combination speaker/microphone, add basic push-to-talk (PTT) capabilities with Workforce Connect™ PTT Express or advanced PTT features with Workforce Connect PTT Pro, an easy-to-launch cost-effective subscription service.

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	10.4 in. color XGA (1024 x 768); 400 NITs
Touch Panel	Standard version: capacitive multi touch, Corning Gorilla Glass with air gapFreezer version: resistive touchscreen with passive stylus or finger operation, integrated touchscreen heater evaporates external condensation
Power	12 to 48VDC nominal 10 to 60VDC min/max Isolated and integrated power supply
Power Consumption	OFF: <1WSuspend: 4 - 7.5WRun Mode: 10-13W: display brightness at 50%, keyboard backlight off, Wi-Fi radio in receiving mode, and UPS battery fully charged.36-40W: display brightness at 100%, keyboard backlight at 100%, Wi-Fi radio receiving and transmitting, UPS battery is charging, and scanner connected.61-65W: display brightness at 100%, keyboard backlight at 100%, Wi-Fi radio receiving and transmitting, UPS battery is charging, scanner connected and touch screen heater is on
UPS	Heated Uninterruptable Power Supply (UPS); minimum 30-minute life over the full operating temperature range
Connectivity	1x Type C USB 3.0 combination host and client port; 1x USB 2.0 host port supports BC1.2; 1x standard powered USB 2.0 host port with 12V/1.5A; 2 x RS-232 COM ports with power on pin 9; 1 x 3.5 mm audio jack for push-to-talk speaker/mic. All ports have strain relief and cover.
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
Notifications	Indicators: audible tone Power Status: green/amber LED Warning: red LED Blue key status: Blue LED
Voice and Audio	High volume 87 dBA speaker External optional speaker/microphone
Keyboard Options	Optional heated external QWERTY or AZERTY keyboard; optional keyboard mounting tray
Keys	Six (6) programmable keys, volume/brightness, blue key for 2nd level functions, on/off key, diamond key (pops up on-screen keyboard)
Mounting	RAM mount; quick release mount; U-mount; adapter for legacy vehicle computer mounts

Performance Characteristics

CPU	Qualcomm Snapdragon™ 660 octa-core 2.2 GHz
Memory	4 GB RAM/32 GB Flash pSLC
Operating System	Upgradeable to Android 14
Software	Ivanti Velocity (pre-loaded and pre-licensed)

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 to avoid heavy icing on the front

Communication and Messaging

Workforce Connect PTT Express and PTT Pro optional licenses are available for purchase to easily add push-to-talk capabilities to your Zebra devices. Workforce Connect PTT Express provides instant push-to-talk small group communications across Wi-Fi networks. Workforce Connect PTT Pro provides a scalable network agnostic push-to-talk solution, which also includes messaging, location services and two-way radio integration.

Platforming

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

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: www.zebra.com/warranty

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 Services (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

Specifications are subject to change without notice.

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

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)

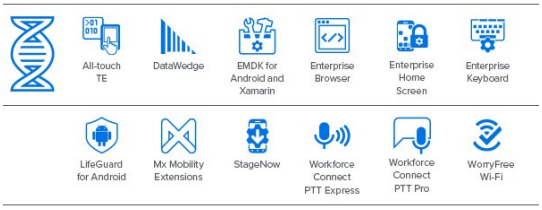
Vehicles

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

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% to 95% non-condensing (standard version); 5% to 95% condensing (freezer version with internal heating)
Sealing	IP66
Impact	Ball drop; 5 Joules on touchscreen; IEC EN 60079-15:2003
Shock/Vibration	IEC 60721-3-5M3; MIL-STD 810G; Method 514.6; MIL-STD 810G; Method 516.6
Thermal Shock	-22° F to 122° F/-30° C to 50° C
Integrated Sensors	Gyroscope; Motion (Accelerometer); Temperature
Salt Fog	48h of 5% solution at 35° C
Solar Radiation	EN/IEC 60068-2-5 solar radiation spectral energy distribution, 1120 W/m2 at display surface Environmental temperature: 40°C. Irradiation duration: 24 hours
Electrostatic Discharge (ESD)	+/-20kV air discharge; +/-10kV contact discharge; +/-10kV indirect discharge

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



Wireless LAN

Radio	IEEE 802.11a/b/g/n/ac/k/r/d/h/i/v/w; IPv4, IPv6, 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 (2412-2472MHz): 1,2,3,4,5,6,7,8,9,10,11,12,13Channel 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);WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES); WPA3 Enterprise (AES)— EAP-TTLS (PAP, MSCHAP, MSCHAPv2, GTC), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP, EAP-PWD; WPA Enterprise 192-bit (GCMP-256) — EAP-TLS; Enhanced Open (OWE) 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; 802.11ac; PMF, WMM-PS, WMM-AC, Voice Enterprise and Wi-Fi Direct)
Fast Roam	PMKID caching, Cisco CCKM, OKC, 802.11r
WLAN Antennas	Switchable internal or external antennas, various whip and magnetic mounted antennas available

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