VC80x Vehicle Mount Mobile Computer

Put the power of Android in your warehouse vehicles

With the VC80x, you can easily migrate your material handling vehicles to the next generation platform for warehousemobility. Based on Android, the VC80x delivers a well-proven mobility platform with guaranteed security support you can count on. You can migrate from Windows to Android without changing the experience you have in place today — no re-training, re-configuration, or development is required. Designed for the most extreme environments, the VC80x 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. And only Zebra fortifies Android with powerful Mobility DNA features to accelerate every aspect of the warehouse, from goods in to ship out. The VC80x — ultra-rugged, Android-powered for a smarter warehouse.



Easily Transition to Android

Run the apps you have today — no changes needed
Since Ivanti Velocity is pre-loaded and pre-licensed, you can run your existing terminal emulation (TE) screens or HTML5 apps on the VC80x, right out of the box. Your workers get the same experience they have today — there's no need to change your backend or re-train workers. And you can even transform your green TE screens to graphical, touch-based screens.

Ready for the next generation of Warehouse Management Systems
Since the VC80x is based on Android, you're ready for the new wave of Android-based Warehouse Management Systems (WMS). With a powerful computing platform and flexible development environment, the VC80x can grow as your applications evolve.

Built-in future proofing and operating system support
Only from Zebra, LifeGuard™ for Android guarantees direct security updates for a total of 10 years from the release date, along with the ability to upgrade to future versions of Android[1] for a superior lifecycle and return on investment.

Android Certified for guaranteed security and performance
Since the VC80x is an Android Certified device, you get the peace of mind that comes from knowing the device is secure and proven compatible with the growing number of Android apps built for the warehouse and enterprise.

A common platform for the warehouse and beyond
If you are using Zebra Android handheld and wearable devices in the warehouse, workers and IT will benefit from a common operating system and solution platform. You'll get the same user experience and management tools across different form factors throughout the warehouse and supply chain.

navis ready

The rugged VC80x — Your path to Android and a smarter warehouse.

For more information about the VC80x Vehicle Mount Computer, visit www.zebra.com/vc80x or access our global contact directory at www.zebra.com/contact

Ultra Rugged Design

Built for extreme environments

The VC80x 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

The VC80x is the only Android vehicle computer to offer true frost and condensation free operation with touchscreen, connectors, board and battery heaters, plus smart temperature sensors that automatically control heater and heating speed.

An optional heated, rugged keyboard

If your workers prefer full keyboard operations, you can mount the optional rugged keyboard to the bottom of the VC80x. The keyboard's internal heater ensures frost and condensation free operation in freezing temperatures, while drainage holes prevent heavy icing on the keyboard.

Fits in virtually any warehouse/material handling vehicle

Multiple mounting options, including standard RAM mounts combine with a compact size for an easy fit and easy mounting, even in the smallest vehicles. A 10-second quick release mount makes it easy to move the VC80x to another vehicle during vehicle maintenance or device repair.

Get Powerful New Zebra-Only Features with Mobility DNA

Get more value out of your VC80x with Mobility DNA

Every strand of your mobility platform is simpler with Zebra's Mobility DNA. Right from the start, you have the industry's most comprehensive suite of mobility must-haves to simplify everything from deployment to application development and add new capabilities that boost worker productivity.

Doubles as a walkie-talkie

The VC80x can be configured with an optional speaker/microphone and includes Zebra's Workforce Connect Push-to-Talk Express, a powerful free application that enables Push-to-Talk walkie-talkie style calling right out of the box.[2]

Easily control application and feature access

Prevent workers from using the VC80x for play with Mobility DNA's Enterprise Home Screen. With this handy utility, you can easily pick and choose which apps and device features are accessible.

Built for Ease of Use

Easy to see indoors and outside

Choose either 1,000 NITs for a super bright screen that is easy to see outdoors or 400 NITs for indoor operation.

The computing power to do it all

The blazing fast 1.8 GHz hexa-core 64-bit processor with 4 GB RAM can run everything your vehicle workers need to take care of business, including multiple graphics-intensive applications.

Easy to hear in your loudest environments

The very loud front-facing speaker and instantly accessible volume control make it easy to hear scanner feedback and app notifications.

The fastest, most dependable Wi-Fi connections

With support for 802.11ac — plus software-switchable internal or external antennas, the VC80x delivers a superior voice and data experience. Enhanced roaming technology ensures that vehicle operators will stay connected to the apps and data they need as they move throughout the facility.

Programmable keys to simplify the most complex operations

With six direct and six soft programmable keys, multi-step processes can be executed with one key press, boosting throughput and productivity.

Add barcode scanning, voice and more

Different workers need different capabilities. That's why the VC80x offers all the ports you need to add barcode scanners, mobile printers, a Push-to-Talk microphone and more.

Ready for voice-directed applications

With support for Wideband audio over Bluetooth, the VC80x is ready for voice-directed warehouse applications.

Instantly pair Bluetooth scanners

With a quick scan of the pairing barcode printed directly on the VC80x, workers can instantly pair their Zebra cordless scanner.

Configure your peripherals via SSI

Zebra's rugged DS3600 Series and RS6000 Bluetooth ring scanner can be configured directly from the VC80x via SSI.

Repairable, right on the spot

Since the touch screen, bezel keys and UPS battery are field replaceable, there are fewer trips to the service depot — increasing device availability and your return on investment.

Specifications

Physical Characteristics

Dimensions	10.9 in. W x 9.4 in. H x 3.5 in. D 276 mm W x 238 mm H x 90 mm D
Weight	8.1 lbs./3.7 kg
Keyboard Options	External QWERTY and AZERTY, optional L-mount
Power	Internal power supply 12-48V nominal, designed for forklift power
UPS	Rechargeable UPS battery for operation during power loss
Display	10.4 in. color XGA (1024 x 768) LCD; 24-bit color depth; choice of 400 or 1,000 NITs; LED backlight
Touchscreen	Resistive touchscreen with passive stylus or finger operation Freezer version: integrated touchscreen heater evaporates external condensation when moving out of and into freezers
Keys	Six (6) programmable macro keys; volume; brightness; blue key for 2nd level functions; on/off key
Interface Ports	Standard sealed and secured connectors: 2 RS-232 serial ports; 1 standard USB port; 1 powered USB port; 1 3.5 mm audio jack; optional Ethernet port via adapter
Indicators	Power LED; warning LED; blue key status LED
Scanner Support	Handheld scanners and imagers connected via USB, RS-232 or Bluetooth; SSI support for DS36xx Series scanners and RS6000 Bluetooth scanner
Mounting	Quick release mount; standard RAM mounts; adapters for legacy vehicle computer mounts

Performance Characteristics

CPU and RAM	Qualcomm 8056 1.8 GHz hexa-core 64 bit with power optimization, with 4 GB RAM
Operating System	Android 8.0 (Oreo) – AOSP; GMS – select configurations
Mass Storage	32 GB eMMC (pSLC)
Software (pre-licensed and pre-loaded)	DataWedge with SSI scanner support; Workforce Connect PTT Express; Ivanti Velocity powered by Wavelink
Optional Software	Workforce Connect PTT Pro, SOTI MobiControl

User Environment

Operating Temp.	-22° to 122° F/-30° to 50° C
Storage Temp.	-40° to 140° F/-40° to 60° C
Humidity	5% to 95% non-condensing (standard version); 5% to 95% condensing (freezer version with internal heating)
Sealing	IP66
Thermal Shock	-22° to 122° F/-30° to 50° C
Shock/Vibration	IEC 60721-3-5M3; MIL-STD 810G; Method 514.6; MIL-STD 810G; Method 516.6
Salt Fog	48 hours of 5% solution at 35° C
Solar Radiation	MIL STD 810-G, Method 505.5, Procedure I
Integrated Sensors	Motion (accelerometer); temperature; ignition
ESD	±20kV air discharge, ±10kV direct discharge

Wireless Data Communications

WLAN	802.11 a/b/g/n/ac/k/r
WLAN Antennas	Internal or external, software switchable
WPAN	Class 2, Bluetooth v4.0 (Bluetooth™ Smart technology); Bluetooth Wideband support HFPv1.6

Voice and Audio

Audio	High volume 87 dBA speaker
Push-to-Talk	External optional speaker/microphone

Regulatory

Electrical Safety	UL/cUL/IEC/EN 60950-1 Indoor use and UL/cUL/IEC/EN 60950-22 Outdoor 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	USA: FCC Part 15.247, 15.407 Canada: RSS-210 EU: EN 300 328, EN 301 893 AU/NZ: AS/NZS 4268
Environmental	RoHS/WEEE/REACH compliant
Flammability	IEC UL94-V0

Accessories

Corded scanners; cordless scanners; wearable scanners; antennas; Push-to-Talk speaker/microphone; HS3100 rugged Bluetooth headset; keyboards, including rugged heated keyboard; keyboard mounts; adaptation kits (power cables) for drop in replacements of legacy vehicle mount computer installations; quick release mount; RAM mounts; scanner holder. For a complete list of accessories, visit www.zebra.com/vc80x

Markets and Applications

Industries

- Warehousing
- Distribution
- Transportation & Logistics
- Manufacturing

Environments

- Freezers Outdoor yards
- Airports
- Seaports
- Railway yards

Applications

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

Warranty

Subject to the terms of Zebra's hardware warranty statement, the VC80x 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: http://www.zebra.com/warranty

Recommended Services

Zebra OneCare Select

Footnotes

1. Requires a valid Zebra OneCare service contract.
2. Workforce Connect Express is compatible with most Zebra mobile devices. Optional external speaker/microphone required for Push-to-Talk.

Mobility DNA Solutions

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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