



VC80x

ULTRA-RUGGED, ANDROID POWERED VEHICLE MOUNT MOBILE COMPUTER





**The Business
Challenge and
Solution**

**VC80x Features
and Benefits**

Global Services

**Zebra —
A True Mobility
Partner**

AGENDA

THE BUSINESS CHALLENGE AND SOLUTION

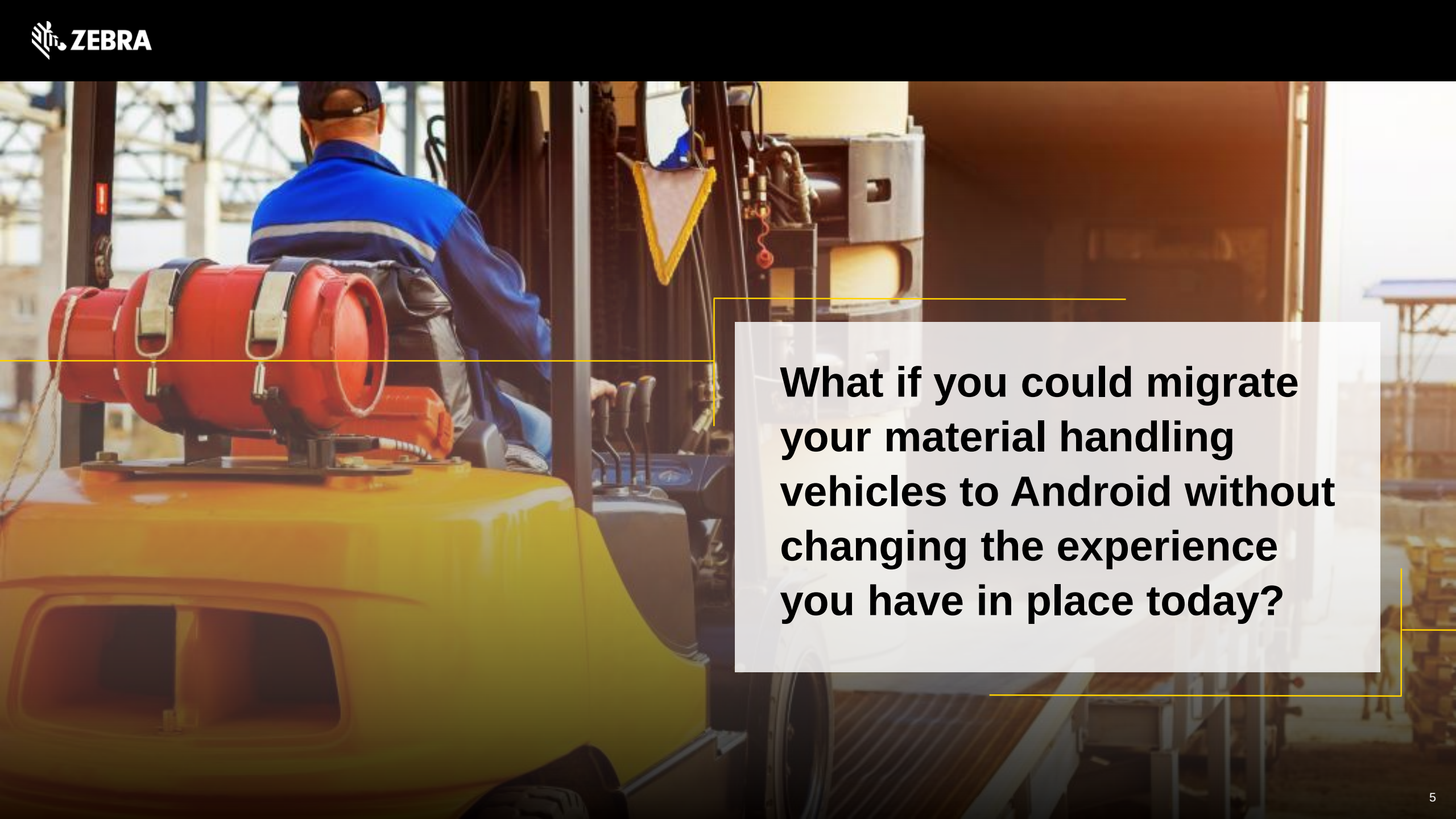


The Platform challenge in today's warehouse

Windows CE
is approaching
the end of its
life cycle

You know you need
to migrate from
Windows, but...

- 1 You don't want to break your current processes
- 2 You don't want to re-train workers
- 3 You don't want to reconfigure your backend systems



**What if you could migrate
your material handling
vehicles to Android without
changing the experience
you have in place today?**

Introducing the VC80x Vehicle Mount Computer



EASILY TRANSITION TO ANDROID

Run the apps you have today – no changes needed.
Be ready to run next generation Android WMS apps



SUPER RUGGED

Ready for your toughest indoor and outdoor environments – including the freezer



FITS ANY WAREHOUSE VEHICLE

Compact with multiple mounting options – including standard RAM mounts



The Benefits of Android in the Warehouse



Android is a proven mobility platform

More than two billion devices in use today

Android is familiar

As the world's most popular OS, Android is intuitive to use right out of the box

Android is the next generation in enterprise mobility

Guaranteed security support you can count on for years to come

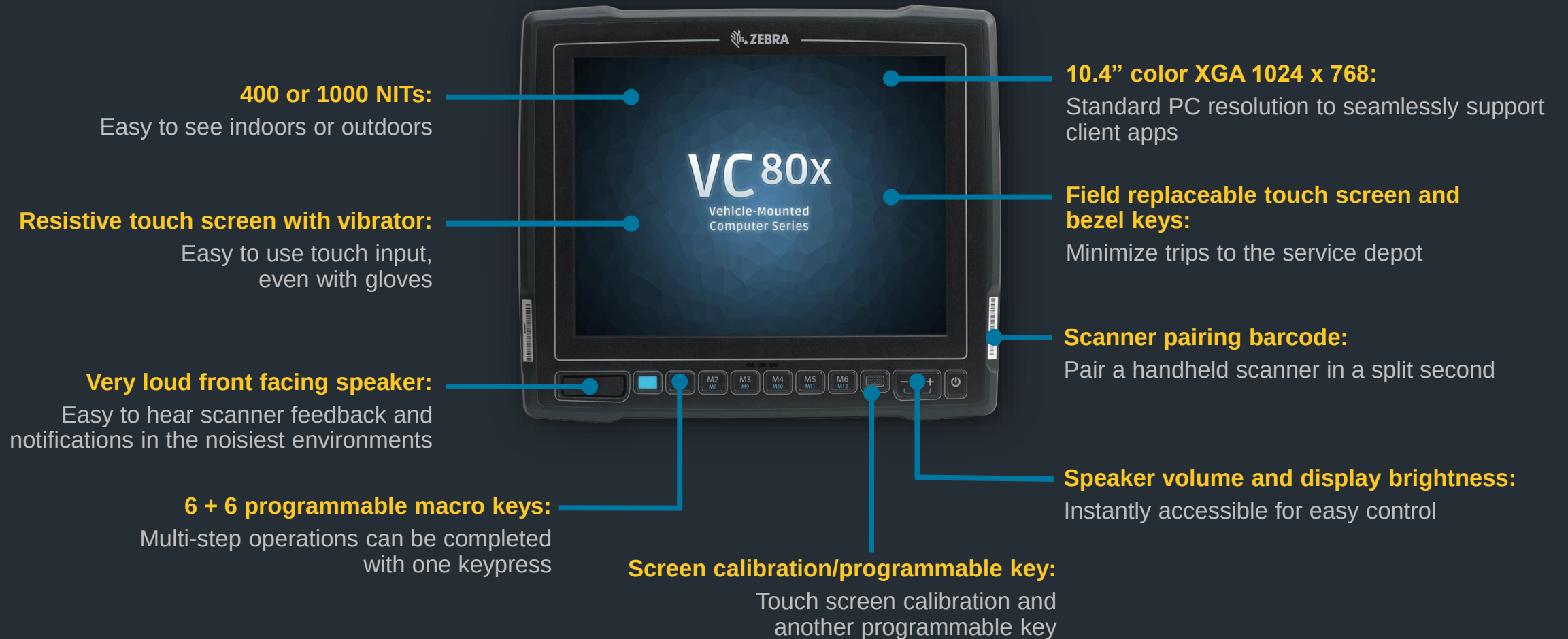
Android offers a common platform across your operations

The same OS and user experience across multiple device types throughout the warehouse and supply chain.

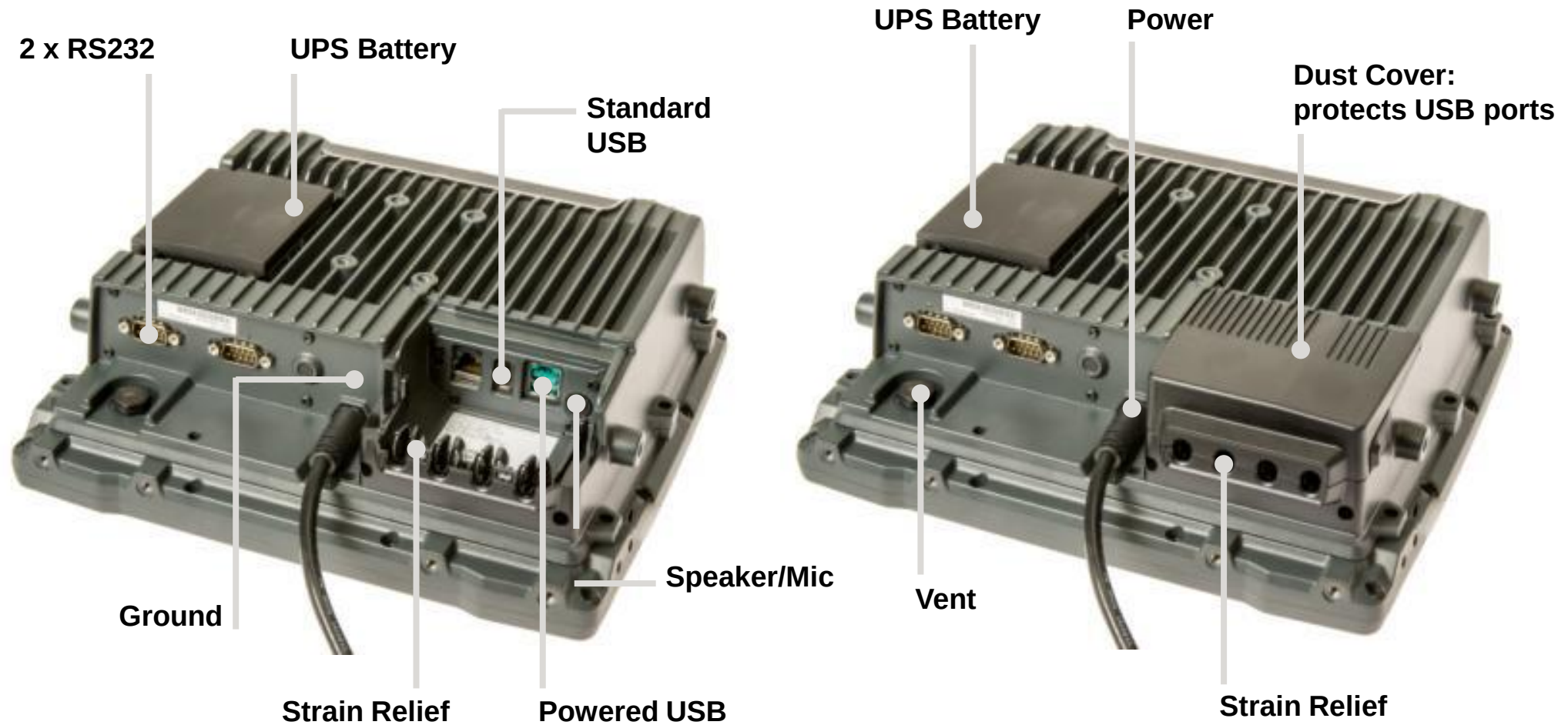
VC80x Features



SUPERIOR DESIGN MAXIMIZES USABILITY AND WORKER PRODUCTIVITY



MORE CONNECTIVITY FOR PERIPHERALS



SUPER RUGGED DESIGN FOR YEARS OF RELIABLE OPERATION

- **IP66 Rating: Dust tight and protected against powerful jets of water – including the connectors**
- **Cast aluminum housing**
- **MIL-STD 810G. IEC 60721-3-5M3 and Zebra internal rating for extreme shock and vibration**
- **-30° to +50° C Operating Temperature**



BUILT TO SURVIVE CONSTANT POUNDING AND VIBRATION

FREEZER OPTION

FOR YOUR COLDEST SUPPLY CHAINS



**Internal heater for
condensation control**

**Touch screen heater to
minimize condensation and
ice on the screen**

**Inside and outside
temperature sensors to
identify condensing
circumstances**

**Built-in intelligence to
automatically turn the heaters
on and off as needed**

**ONLY ANDROID VEHICLE COMPUTER BUILT
FOR FREEZER-CONDENSING ENVIRONMENTS.**

Ivanti Velocity

PRE-LOADED AND PRE-LICENSED

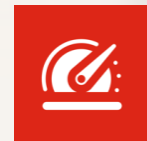
Run the apps you have today... no changes needed

Run your existing terminal emulation (TE) screens or HTML5 apps on the VC80x – right out of the box

Give workers the same experience they have today – no re-training required

No need to reconfigure your backend

You can even transform your green TE screens to all-touch graphical screens if you prefer



Velocity

**EASILY MIGRATE
TO ANDROID AT
YOUR OWN PACE.**

POWERFUL COMPUTING PLATFORM

A POWERFUL PLATFORM
PROVIDES DESKTOP-LIKE
SPEED FOR YOUR WMS
AND ERP APPLICATIONS



THE MOST POWER IN ITS CLASS

OS

Android 8.0 (Oreo)

CPU and
RAM

Qualcomm APQ 8056
4 GB RAM (PoP)

Mass
Storage

32 GB eMMC (pSLC)

SUPERIOR RADIO SYSTEM

ROCK-SOLID WI-FI CONNECTIONS WITH
SUPPORT FOR THE LATEST STANDARDS



WLAN

802.11a/b/g/n/ac/k/r

2 x 2 MIMO

Next-generation AC offers 3x
the throughput of 802.11n

Switchable internal or external
antennas

Enhanced roaming technology —
optimized for vehicle applications

WPAN

Bluetooth 4.0

Pair cordless scanners, headsets and printers

Support for Wideband Audio for voice
picking applications



Handheld Barcode Scanners

THE ULTRA-RUGGED
3600 SERIES

Voice/Audio

HEADSET FOR VDP
SPEAKER/MIC FOR PTT

Ring-style Barcode Scanners

RS6000 / RS507

Mobile Printers

ZQ500 / QNL420 / P4T

Locationing Solutions

ZEBRA'S FULL
SUITE OF
HARDWARE AND
SOFTWARE

Mounts

QUICK RELEASE MOUNT
RAM MOUNTS
VESA MOUNTS
KEYBOARD MOUNTS
SCANNER MOUNTS

Antennas

INTERNAL & EXTERNAL
ANTENNAS

Keyboards

RUGGED HEATED
KEYBOARD

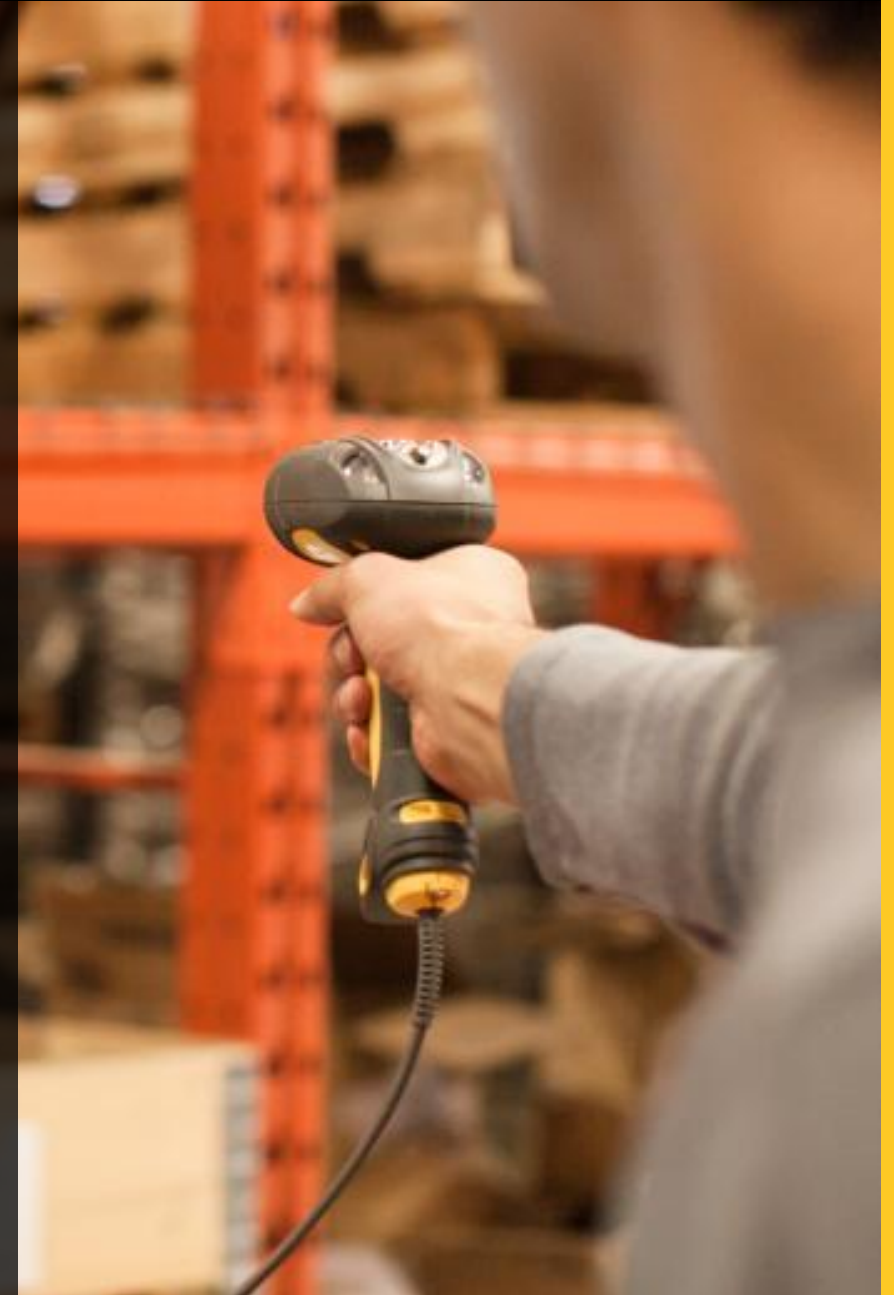


THE HEART
OF A COMPLETE
SOLUTION



CHOOSE THE BARCODE SCANNER THAT IS RIGHT FOR YOUR APPLICATIONS

- ☐ Choose from our handheld 1D lasers, 1D/2D imagers, extended range imagers/lasers and ring-style scanners
- ☐ Instantly pair cordless scanners with user-facing pairing barcode printed directly on the VC80x
- ☐ Multiple interface ports – high powered RS232 or USB for corded scanners
- ☐ High-performance scanning – capture damaged, poorly printed, dirty and scratched barcodes with ease
- ☐ The latest Generation USB and Bluetooth scanners (DS3600 Series and RS6000) can be configured via SSI through the VC80x



A KEYBOARD THAT'S BUILT AS TOUGH AS THE VC80x

If workers prefer full keyboard operations, mount the optional rugged keyboard

Internal heater ensures frost and condensation free operation in freezing temperatures

Drainage holes prevent heavy icing on the keyboard

Elastomeric keyboard is easy to use – even with heavy gloves

Key placement, size and color are optimized for ease of use

Complete tasks as quickly and efficiently as possible in the most demanding warehouse environments



INPUT POWER SYSTEM THAT WORKS IN ANY ENVIRONMENT



Integrated power
supply for
12/24/36/48 V
trucks

Optional
pre-regulator for
72/80 V trucks

Integrated power
filter for noisy
truck power

Backward
compatibility to
legacy VCs with
DC power cables
adapters

Heated and
vented UPS
battery charges/
discharges over
the full
operating
temperature
range and
ensures
continuous
operations at
power drops and
truck battery
changes



EASY TO MOUNT IN VIRTUALLY ANY WAREHOUSE VEHICLE

CHOICE OF MOUNTING OPTIONS FOR VEHICLES:

- ☐ RAM mount
- ☐ Adjustable mounting tray for keyboard
- ☐ Mounting accessories to side-mount numeric keyboard and scanners
- ☐ Easy installation in the location that provides maximum ease of use and maximum operator visibility
- ☐ Backward compatibility adapters to legacy VC mounting hardware

REMOVE **THE
COMPLETE
UNIT IN 10
SECONDS**

QUICK RELEASE MOUNTING

Easily move the VC80x to another vehicle for vehicle maintenance or to utilize a different vehicle

Minimize workflow interruptions

REPAIRABLE, RIGHT ON THE SPOT

Touch screen, bezel
keys and UPS
battery are field
replaceable

Increases device
availability and your
return on investment

Minimizes
trips to the
service depot

Unmatched Support for your VC80x – and Android

ZEBRA OFFERS AN UNPRECEDENTED COMMITMENT OF SECURITY SUPPORT FOR YOUR DEVICE...

Available for sale for 5 years, with a total of 10 years of available service and support from the day the VC80x is launched. The same model you buy today will be available for new staff.

LifeGuard™ for Android™:
Zebra's software security solution extends the lifecycle of Android enterprise mobile computers with OS security updates for 2 years beyond End of Sale *(requires valid service contract)*.



OS Upgrade Support: Supports Android O *(requires valid service contract)*.

**10-YEARS
SUPPORT**

THE RESULT?

A superior lifecycle. A superior return on investment. A superior value.

Mobility DNA — only from Zebra

With our industry-leading Mobility DNA tools, the VC80x is user-friendly, secure and easy-to-manage – right out of the box.

WHAT IS MOBILITY DNA?

Mobility DNA is the industry's most comprehensive suite of mobility must-haves.

You get...

- Innovative business applications
- Effortless application development tools
- Robust administration utilities



HOW WILL YOU BENEFIT?

- Reduce cycle times
- Maximize the ROI of your mobile deployment
- Minimize complexity and risk
- Streamline implementation and management

Know More, Do More, Control More with Mobility DNA.

Mobility DNA: Development, Management and Productivity Tools



Mobility Extensions

Adds a layer of optional features that make Android a more robust enterprise-class operating system..



EMDK for Android

Graphical user interface development tool that allows you to develop apps for your VC80x in less time.



Enterprise Browser

Build feature-rich web applications that integrate seamlessly with the features in the VC80x and its peripherals.



StageNow

Simple wizard-driven tool that makes it easy to stage a handful or hundreds of VC80x devices and peripherals with a quick scan of a barcode.



Enterprise Home Screen

Easily control the way your workforce uses your mobile computers —define which applications and features are available to users



AppGallery

Easily find, purchase, deploy and update apps for your VC80x and other Zebra Android mobile computers.



Workforce Connect



PTT Express (included)

Workforce Connect PTT Express provides instant PTT small group communications across Wi-Fi networks,



PTT Pro (supported)

Workforce Connect PTT Pro provides a scalable network agnostic PTT solution which also includes messaging, location services and two-way radio integration

Mobility DNA Management and Development tools make it easy to develop applications for, manage and deploy your VC80x devices

What will the VC80x do for your business?



THE VC80x IS DESIGNED FOR...

WAREHOUSING
DISTRIBUTION
TRANSPORTATION & LOGISTICS
MANUFACTURING

Applications

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

Deployment Environments

Freezers
Outdoor yards
Airports
Seaports
Railway yards

Vehicles

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



THE BENEFITS OF REAL-TIME INFORMATION ACCESS IN YOUR MATERIAL HANDLING VEHICLES

**Faster
shipping**

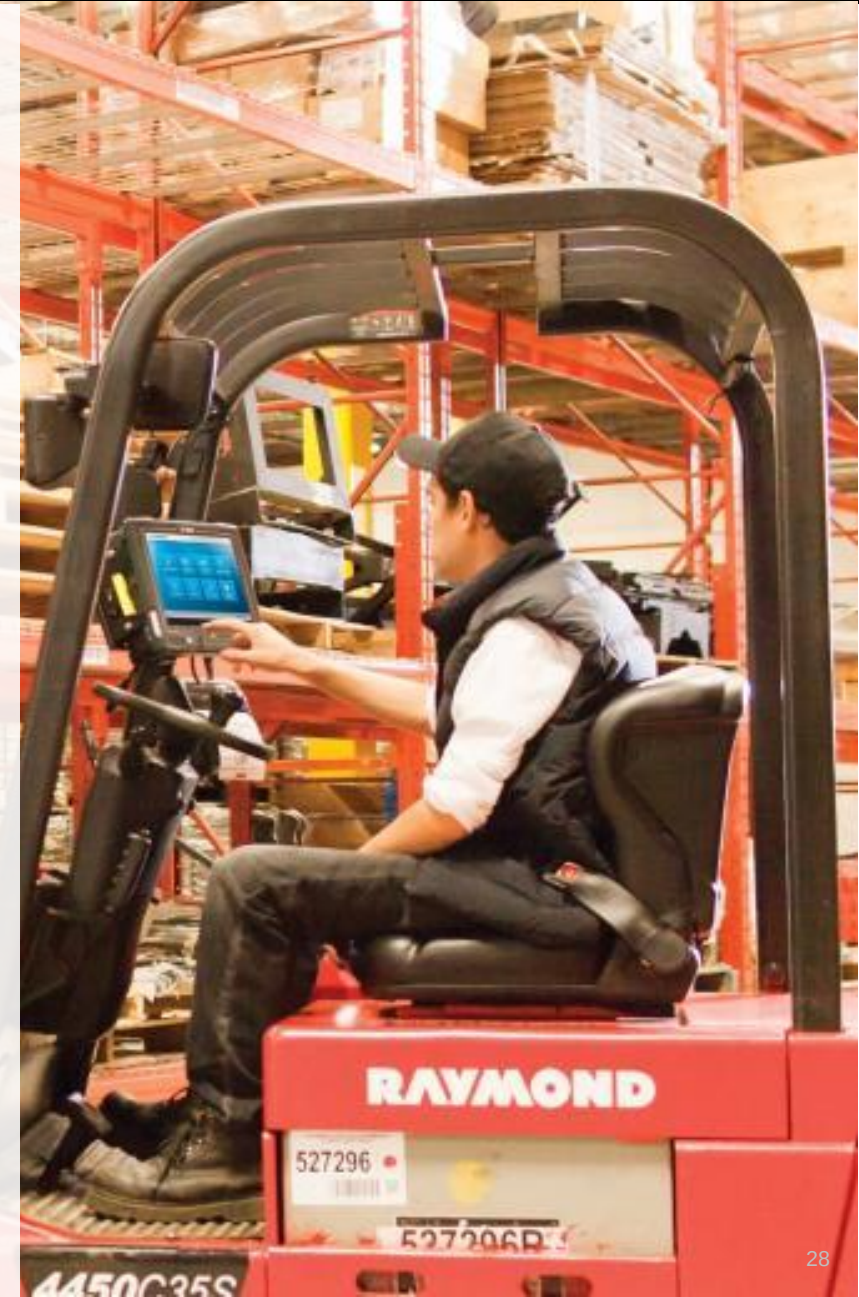
**Accurate
orders**

**Increased
productivity**

**Increased
throughput**

**Increased
customer
service**

**Increased
customer
loyalty and
retention
rates**



HOW DOES THE VC80x LOWER YOUR TOTAL COST OF OWNERSHIP?



INTEGRATED SOLUTION = FEWER VENDORS TO MANAGE

Integrated solution can include vehicle computers, handheld mobile computers, handheld scanners, wearable scanners and services

ANDROID = A COMMON PLATFORM FOR THE WAREHOUSE

Affordably extend Android to your vehicles without re-training workers

FIELD SERVICEABILITY = FEWER TRIPS TO THE SERVICE DEPOT

Touchscreen and bezel keys are field replaceable

“DROP-IN” REPLACEMENT = COST-EFFECTIVE UPGRADE

Backwards compatible with many accessories and mounting hardware of legacy and competitor vehicle computers

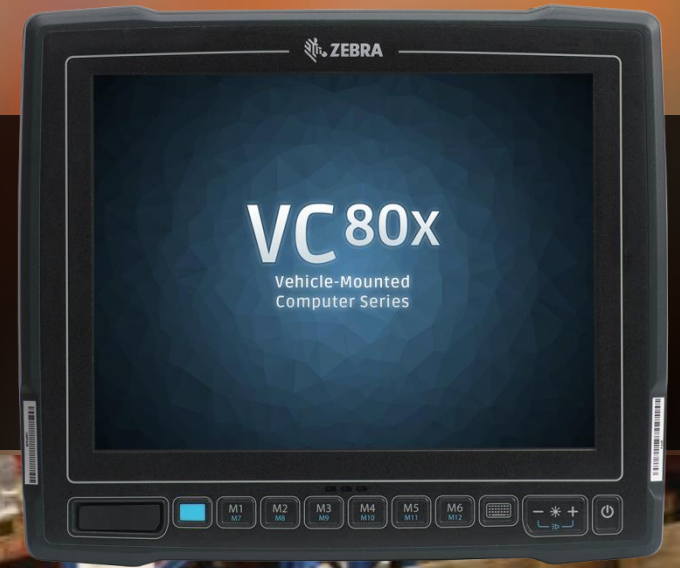
QUICK RELEASE MOUNTING = LESS INTERRUPTION

Move the VC80x to another vehicle in 10 seconds

STANDARD CABLES = LOWER COST AND COMPLEXITY

The VC80x supports standard peripheral cables, so you don't have to purchase or manage proprietary cables

Zebra Global Support Services



Zebra OneCare™



**COVERAGE
FROM DAY ONE**

**Keep Your VC80x Devices Operating
at Peak Performance**

**Upgrade to the ultimate in post-deployment
support with multi-year coverage from day one**

Tiered service plans to meet your support needs
and budget

Normal wear and tear plus accidental breakage repair
coverage with OneCare Essential and Select

Includes telephone and software support

Upgrade to OneCare Select to add next-business-day
dispatch of replacement devices, 24/7 Level One support
and more

BENEFITS

Maximize
device uptime

Unparalleled “from
the manufacturer”
expertise

Outstanding value
– eliminates
unexpected
repair costs

Enables IT to focus
on more strategic
initiatives

Optional Zebra Visibility Services

Do you know where your devices are...and their state of health? With Zebra's Visibility Services, you will.

ANSWER CRITICAL DEVICE QUESTIONS LIKE:

- Where are my devices?
- Are they ready to use?
- How many devices are in the repair depot?
- Which devices are being under-utilized?
- Are any devices missing?
- How many devices are out of contact?
- Do my devices have healthy batteries?
- How much battery power is left?
- Are there problems with wireless connectivity?
- ...and much more.

Visibility Services are available in conjunction with Zebra OneCare

Asset Visibility Service (AVS): At-a-glance insight into basic asset visibility and health (*no MDM required*)

Operational Visibility Service (OVS): See it all with the most complete device management information available for your VC80x — and other Zebra and non-Zebra devices.

Zebra – A Trusted Mobility Partner



Get the most out of Android — from the leader in Android in the enterprise

- Led the way in making Android suitable for enterprise use
- Added important enterprise security, device management, application management and data capture features
- No other vendor offers such a comprehensive ecosystem of software to support Android in the enterprise

Only Zebra offers a deep understanding of software and industry needs



WHAT DOES NAVIS CERTIFICATION MEAN?

- The Zebra Vehicle Computers VH10, VC80, and VC80x have successfully been certified by Navis.
- Navis is the market leader of Terminal Operating Software (TOS) which is used to manage intermodal sites like seaports or rail yards.
- The Zebra Vehicle Computers (VCs) are installed on vehicles used on these sites, such as straddle carriers, reach stacker or terminal tractors.
- Through the Zebra VCs, the vehicle operator is wireless connected to the Navis TOS and gets the container movement instructions in real time.
- By choosing a Navis certified device, intermodal site operators will reduce implementation risks as the functionality of the technology has been validated in advance.



World's most comprehensive portfolio of Android devices for the warehouse

Drive growth with a smarter warehouse – benefit from a shared OS, management and mobility platform across multiple device types in the warehouse and supply chain



MC3200 and MC3300

Three lightweight models – brick, gun and turret – bring all day comfort to every task, from cycle counting to putaway, replenishment and voice-directed picking



MC9200

The gold standard mobility for demanding warehouse environments. A proven rugged design with a mix of touch screen and physical buttons



TC8000

An innovative touch screen design and extensive productivity-enhancing features add an extra hour of productivity per worker to the workday



WT6000

Sets a new standard for enterprise-class wearability. It's smaller and lighter than other wearables on the market and fits comfortably on every worker, on any size arm



VC80x

With its super rugged design, 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

Unmatched Breadth

EVERYTHING YOU NEED, UNDER ONE ROOF – MOBILE DEVICES,
SCANNERS, RFID, SECURITY AND SUPPORT SERVICES



Handheld mobile computers

Vehicle-mount mobile computers

Wearable mobile computers

Tablets

Handheld barcode scanners

Fixed mount scanners

Handheld RFID readers

Fixed RFID readers

Interactive kiosks

Mobile device management

Printers

End-to-end services

Gracias
Mamane
Kiitos
Grazie
Kia Ora
Matondo
Dank Je
Nirringrazzjak
Obrigado
Mochchakkeram
Obrigado
Matondo
Salamat
Nirringrazzjak
Matur Nuwun
Chokrane
Raibh Maith Agat
Kiitos
Salamat
Arigato
Obrigado
Mochchakkeram
Ua Tsaug Rau Koj
Maake
Dankon
Maake
Ua Tsaug Rau Koj
Mochchakkeram
Terma Kasih
Multumesc
Merci
Raibh Maith Agat
Obrigado
Asante
Merci
Vinaka
Multumesc
Spasibo
Cam on ban
Kiitos
Raibh Maith Agat
Merci
Mochchakkeram
Chokrane
Grazie
Welalin
Multumesc
Obrigado
Juspaxar
chokrane

THANK YOU