TC51-HC Touch Computer
BATTLE CARD

ZEBRA GLOBAL SERVICES

Zebra OneCare increases device availability, keeping TC51-HC devices where they provide the most value – in the hands of caregivers and other workers. Refer to Solution Builder for more information:

Zebra OneCare Essential

Covers normal wear and tear and Comprehensive Coverage; depot repair with 3-day in-house turnaround time; provides full access to technical support resources and software releases.

Zebra OneCare Select

Builds on OneCare Essential, offering advanced replacement of devices needing repair; service dashboard; 24/7 Level one support and more.

TC51-HC Touch Computer
EVERYTHING HEALTHCARE WORKERS WANT. EVERYTHING HOSPITALS NEED

To provide the highest quality care, nurses and other healthcare workers need to call or text physicians and other co-workers, take calls coming in from the PBX, access electronic patient records, scan barcodes to ensure accuracy in medicine administration and specimen collection, monitor medical equipment alarms and more. While many mobile computers can address some of these capabilities, the TC51-HC delivers it all. With the TC51-HC in hand, healthcare workers have all the functionality they need to tackle virtually any task – without compromising on patient privacy or data security. The TC51-HC sets the bar in its class for rugged design, screen functionality and size, barcode scanning performance, battery capacity, camera resolution, power, memory and data storage – all in a housing created with the industry's most resilient medical-grade plastics.

TOP 11 REASONS WHY TC51-HC IS THE ANSWER TO BETTER CONNECTIONS AND BETTER CARE.

1. One Touch Access to the Most Used Features
Seconds can mean the difference between life and death in a hospital. That's why the TC51-HC offers two flexible options to give users near instant access to needed features or applications — a programmable button on the back of the device or Active Edge™ Touch Zones, custom dedicated keys on either side of the display that users can create and change on the fly. With the single press of a finger, users can access the Electronic Medical Records application, text messaging, the scanner and the camera, or send a Code Blue alert to the right personnel.

2. The Most Sanitizable Housing Design
The TC51-HC is designed for healthcare from the ground up — screw holes are covered and the number of crevices and seams have been minimized, eliminating places where germs can hide**.** Advanced, medical-grade plastics provide the ability to withstand constant exposure to the widest selection of disinfectants in the industry.

3. First-time, Every-time Fast and Flawless Scanning
One of our most advanced scan engines and Zebra-only PRZM Intelligent Imaging work together to deliver lightning fast capture of 1D and 2D barcodes, regardless of whether they are damaged, dirty and poorly printed or displayed on a screen.

4. Most Rugged Device in its Class
The IP65-sealed TC51-HC is the only mobile computer in its class that can handle 4 ft./1.2 m drops over the entire operating temperature range. The Corning Gorilla Glass touch panel and imager window bring maximum scratch protection. And the unibody design provides extra impact protection for the sensitive electronics.

5. Superior PBX Functionality
With optional Workforce Connect Voice, the TC51-HC mobile computer doubles as a cordless PBX handset, reducing costs and eliminating a device to carry and manage. The TC51-HC offers the most comprehensive set of PBX features in its class including support for multiple handsets and a customizable interface.

6. Best Battery and Power Management in its Class
The best-in-class PowerPrecision+ battery delivers up to 14 hours of battery life.* With Warm Swap mode, users can change the battery without powering the device down or closing open applications. A wealth of easily accessible battery metrics makes it easier to identify, remove and replace aging batteries. *Based on typical usage.*

7. Maximum Display Size
The 5-inch display is the largest in its class, providing workers with more space to view critical patient data. Workers can use a finger or gloved finger to interact with applications, even if the screen is wet.

8. PTT Right Out of the Box
Better voice connections mean better collaboration and better outcomes. Workforce Connect PTT Express is pre-installed and pre-licensed, enabling PTT right out of the box, inside the four walls, with any other worker carrying any PTT Express-enabled Zebra mobile computer.

9. Most Powerful Computing Platform
The TC51-HC offers more memory and up to two to eight times the data storage capacity offered by competitive enterprise-class healthcare mobile computers. And it's the only device in its class to use hexa-core technology. The 1.8 GHz hexa-core 64-bit processor runs apps up to five times faster — and consumes 15 percent less power.

10. Loadable Dictionary
With the TC51-HC, your healthcare customers can easily create, deploy and update a custom dictionary of healthcare words and phrases, complete with shortcuts they define, enabling more efficient and effective text communications.

11. CartScan for Improved Workflow Versatility
With Zebra's CartScan application, the TC51-HC becomes an extension of the Workstation on Wheels, allowing nurses to scan and enter barcodes at the patient bedside via the TC51-HC — ideal for times when the patient's room is crowded and it is difficult to maneuver the Workstation on Wheels to the patient bedside.

COMPETITIVE COMPARISON: WORLDWIDE

In the chart below, blue shading indicates the best specification for a specific feature. Unless noted otherwise, the Apple iPhone specifications pertain to the iPhone 7.

	Zebra TC51-HC	Honeywell CT50h	Ascom Myco	Spectralink PIVOT	Apple iPhone	Why it Matters
Rugged Design						
Sealing	IP65	IP54	IP54	IP64	IP67* (iPhone 7 only; no sealing on iPhone 5 or 6)	With IP65 sealing, the TC51-HC offers protection against dust and jetting water.
Drop Spec	4 ft./1.2 m to tile over concrete over op temp range	4 ft./1.2 m to steel over concrete at room temperature	4 ft./1.2 m to plywood over concrete	4 ft./1.2 m to plywood over concrete	No	The TC51-HC supports industry-best drop and tumble specifications for maximum device reliability, 24x7x365. Note that the Apple iPhone does not offer a drop or tumble spec, greatly impacting TCO and ROI. Consumer devices are three times more likely to fail in the first year than enterprise devices, primarily due to falls, resulting in additional costs for repair or replacement and up to 3 to 4+ hours in lost productivity.[1]
Tumble Spec	500 tumbles	500 tumbles	500 tumbles	No	No	
Disinfectant Ready Housing	Yes; health-grade plastics withstand greater range of aggressive disinfectants	Yes	Yes	Yes	No	The TC51-HC features advanced medical-grade plastics to provide superior toughness, with maximum resistance to cracking and the ability to withstand constant exposure to the widest selection of disinfectants in the industry.
Special Design for Disinfecting	Yes	No	No	No	No	The TC51-HC offers the most sanitizable housing design; screw holes are covered and the number of crevices and seams have been minimized, eliminating places where germs can hide.
Computing Platform						
OS	Android 6.0 Marshmallow with Mx	Android 4.4.4 with an upgrade path to Android 6.0 Marshmallow	Android 4.4 KitKat	Android 5.1 Lollipop	iOS	The TC51-HC supports Marshmallow, which delivers enhanced enterprise functionality and the latest in security. Zebra's Mobility Extensions (Mx) adds functionality to make Android a more robust enterprise-class operating system.
Future OS Upgrade Support	Yes (upgradeable to Android N and O)	Yes (upgradeable to Android M)	Information not available	Information not available	Information not available	With support for the next two versions of Android ('N' and 'O'), the TC51-HC offers superior investment protection. (*Requires purchase of service contract.*)
Processor	1.8 GHz hexa-core, 64-bit	2.26 GHz Qualcomm quad core Snapdragon 801	1 GHz dual core; ARM Cortex A9	1 GHz dual core; ARM Cortex A9	2.33 GHz quad core A10 (iPhone 7)	At first glance, the TC51-HC processor appears slower than some competitors. However, it is the only device to offer a hexa-core, 64-bit architecture and can outperform 2.3 GHz quad core processors in both speed and energy efficiency.
Memory	Standard: 2 GB/16 GB Optional: 4 GB/32 GB	2 GB RAM/ 16 GB Flash	1 GB RAM/ 4 GB Flash	1 GB DRAM/ 8 GB Flash or 16 GB Flash	RAM not specified; 32 GB, 64 GB or 128 GB Flash	The TC51-HC offers more internal memory (RAM) for better application performance.
Display Features						
Display Size	5 in. HD 1280 x 720	4.7 in 1280x720	3.5 in. 320x480	4.3 in. 800x480	4.7 in. 1334 x 750 (iPhone 7) or 5.5 in. 1920 x 1080 (iPhone 7 Plus)	The TC51-HC offers the biggest display among enterprise-grade devices. Only the consumer-class iPhone 7 Plus offers a larger, higher resolution display.
Display Works when Wet	Yes	Yes	Information not available	Information not available	No	With the TC51-HC, workers can use a finger or gloved finger to interact with applications and features, even if the screen is wet.
Display Works with Gloves	Yes	Yes	Information not available	Information not available	No	
Three Programmable Buttons	Yes	No	No	No	No	Workers can access the most used applications and features through unique soft keys on either side of the device or the programmable button on the back of the device.

COMPETITIVE COMPARISON: WORLDWIDE (CONTINUED)

	Zebra TC51-HC	Honeywell CT50h	Ascom Myco	Spectralink PIVOT	Apple iPhone 7	Why it Matters
Data Capture						
Barcode Scanning	SE4710 1D/2D imager with PRZM	1D/2D Honeywell N6600 imager	1D linear and 2D options	1D/2D area imager	No: consumer camera only; requires sled for enterprise-class scanning	While the other enterprise-grade devices do support integrated scanning, Zebra delivers industry-leading scan performance. The TC51-HC is capable of capturing 1D and 2D barcodes displayed on a computer screen or printed on paper — even if the codes are dirty, poorly printed or damaged.
Camera	Rear: 13 MP Front: 1.3 MP	Rear: 8 MP Front: None	Rear: 5 MP Front: None	Rear: 8 MP Front: None	Rear: 12 MP Front: 7 MP	The TC51-HC's ultra-high resolution rear-facing camera offers nearly two to three times the resolution found in enterprise-grade competitive devices, providing the detail needed to document patient condition. The addition of a front camera for video conferencing enables remote consultations and tele-health services.
Wireless LAN (WLAN)						
WLAN Support	802.11a/b/g/n/ac/d/h/i/r	802.11a/b/g/n/ac/r (*roaming for data only)	802.11a/b/g/n	802.11a/b/g/n	802.11a/b/g/n/ac	The enterprise Wi-Fi radio in the TC51-HC delivers superior connectivity and application performance for on-the-move workers, providing the constant voice and data connectivity required in the mission-critical world of healthcare.
Cisco CCKM Support	Yes	No	No	No	No	Unlike the competition, the TC51-HC works with existing Cisco WLANs right out of the box, simplifying deployment for Cisco customers. In addition, seamless compatibility with future upgrades to Cisco WLANs allows customers to implement new WLAN technology and infrastructure as needed. As a result, the TC51-HC delivers superior future proofing, a lower total cost of ownership and a better return on investment.
Manual and Automatic Band Selection	Yes via Zebra-only Channel Mask	No	No	No	No	With the TC51-HC, your customers can lock specific mobile devices to specific bands and channels, enabling faster roaming and increased security.
Telephony: Voice Support						
Push-to-Talk (PTT) Right Out of the Box	Yes	No	No	No	No	Zebra's Workforce Connect PTT Express is pre-installed and pre-licensed, enabling push-to-talk right out of the box inside the four walls for instant voice collaboration with other workers carrying any PTT Express-enabled Zebra mobile computer.
Comprehensive Push-to-Talk (PTT) Capabilities	Yes	No	No	No	No	Zebra's Workforce Connect PTT Pro delivers advanced PTT features, as well as the ability to communicate with workers inside and outside the four walls, from nurses and physicians to paramedics in the field.
Ready-to-use, Fully Customizable PBX Support	Yes	No	No	No	No	With Zebra's optional Workforce Connect Voice, the TC51-HC can double as a wireless PBX handset, reducing the number of devices that healthcare workers need to carry; IT needs to manage and procurement needs to purchase. This ready-to-use fully-featured voice client: • Supports leading PBXs and the majority of wired desk phone features • Supports up to six different extensions • Is easy to deploy — your PBX can automatically create buttons for supported features which you can place where you like.

COMPETITIVE COMPARISON: WORLDWIDE (CONTINUED)

	Zebra TC51-HC	Honeywell CT50h	Ascom Myco	Spectralink PIVOT	Apple iPhone 7	Why it Matters
Telephony: PBX Support						
Feature Support	Comprehensive PBX feature support	Minimal PBX feature support	Minimal PBX feature support	Minimal PBX feature support	Minimal PBX feature support	Ensures support for the features that are most crucial in the mission critical world of healthcare.
Customizable Interface	Yes	No	No	No	No	Only Zebra offers a flexible and fully customizable telephony user interface to meet the unique needs of every healthcare facility. Provide a single user interface for all users, simplifying feature access for facilities with PBXs from multiple manufacturers and eliminating the need for training. Or, unique user interfaces can be created for different workgroups and departments to provide single press access to the telephony features and line-of-business applications that are most utilized.
Power						
Battery	4300 mAh PowerPrecision+ for better battery management; fast USB charging	4040 mAh	1520 mAh	2350 mAh (8753); 2300 mAh (8742 and 8744)	Non-swappable Li-ion battery	The best-in-class PowerPrecision+ battery delivers up to 14 hours of battery life*, ensuring workers have plenty of power for the longest shift. *Based on typical user profiles
Warm Battery Swap	Yes	No	Information not available	Information not available	No	With Warm Swap mode, users can change the battery without having to power down the device or close open apps.
Application Compatibility						
Partner Channel	Large; certified application partners include: Secure texting, alerts and VoIP partners Extension Healthcare Mobile Heartbeat Spok Voalte Vocera Point-of-Care partners Allscripts CareFusion Cerner Epic McKesson PatientSafe RMS Omega SCC	Large certified partner channel	Small partner channel with few certified applications for healthcare Limited geographic reach in the US, which restricts their ability to meet the needs of healthcare customers with national hospital networks.	Small partner channel with few certified applications for healthcare	Small partner channel with few certified applications for healthcare	The large Zebra certified partner channel helps ensure existing compatibility with most applications that healthcare customers are utilizing, enabling faster and easier deployments.

1. VDC Research Group Inc: Mobile Device TCO Models for Line of Business Solutions; Volume 1/Track 7: Enterprise Mobility Mobile Device TCO; David Krebs; 2012 (Slides 4, 18, 28 and 29)

COMPETITIVE COMPARISON: CHINA

In the chart below, blue shading indicates the best specification for a specific feature.

	Zebra TC51-HC	Lachesis NDA Nr-510	Why it Matters
Rugged Design			
Sealing	IP65	Information not available	With IP65 sealing, the TC51-HC offers protection against dust and jetting water. The TC51-HC supports industry-best tumble and sealing specifications for maximum device reliability, 24x7x365.
Drop Spec	4 ft./1.2 m to tile over concrete over operating temp. range	4 ft./1.2 m to concrete over operating temp. range	
Tumble Spec	500 tumbles	No	
Disinfectant Ready Housing	Yes; health-grade plastics withstand greater range of aggressive disinfectants	Yes	The TC51-HC features advanced medical-grade plastics to provide superior toughness, with maximum resistance to cracking and the ability to withstand constant exposure to the widest selection of disinfectants in the industry.
Special Design for Disinfecting	Yes	No	The TC51-HC offers the most sanitizable housing design; screw holes are covered and the number of crevices and seams have been minimized, eliminating places where germs can hide.
Computing Platform			
OS	Android 6.0 Marshmallow with Mx	Android	The TC51-HC supports Android Marshmallow, which delivers enhanced enterprise functionality and the latest in security. Zebra's Mobility Extensions (Mx) adds functionality to make Android a more robust enterprise-class operating system.
Future OS Upgrade Support	Yes	Information not available	With support for the next two versions of Android ('N' and 'O'), the TC51-HC offers superior investment protection. (*Requires purchase of service contract.*)
Processor	1.8 GHz hexa-core, 64-bit	Information not available	The TC51-HC offers a hexa-core, 64-bit architecture that can outperform higher clock speed quad core processors in both speed and energy efficiency.
Memory	Standard: 2 GB/16 GB Optional: 4 GB/32 GB	Information not available	The TC51-HC offers more internal memory than competing devices for better application performance.
Display Features			
Display Size	5 in. HD; 1280 x 720	Information not available	The TC51-HC offers the biggest display among enterprise-grade devices.
Display Works when Wet and with Gloves	Yes	Information not available	With the TC51-HC, workers can use a finger or gloved finger to interact with applications and features, even if the screen is wet.
Three Programmable Buttons	Yes	No	Workers can access the most used applications and features through unique soft keys on either side of the device or the programmable button on the back of the device.
Data Capture			
Barcode Scanning	SE4710 1D/2D imager with PRZM	1D/2D imager	Zebra delivers industry-leading scanning performance. The TC51-HC is capable of capturing 1D and 2D barcodes displayed on a computer screen or printed on paper — even if the codes are dirty, poorly printed or damaged.
Camera	Rear: 13 MP Front: 1.3 MP	No	The TC51-HC's ultra-high resolution rear-facing camera provides the detail needed to document patient condition. The addition of a front camera for video conferencing enables remote consultations and tele-health services.
Wireless LAN (WLAN)			
WLAN Support	802.11a/b/g/n/ac/d/h/i/r	Information not available	The enterprise Wi-Fi radio in the TC51-HC delivers superior connectivity and application performance for on-the-move workers, providing the constant voice and data connectivity required in the mission-critical world of healthcare.
Cisco CCKM Support	Yes	No	Unlike the competition, the TC51-HC works with existing Cisco WLANs right out of the box, simplifying deployment for Cisco customers. In addition, seamless compatibility with future upgrades to Cisco WLANs allows customers to implement new WLAN technology and infrastructure as needed. As a result, the TC51-HC delivers superior future proofing, a lower total cost of ownership and a better return on investment.
Manual and Automatic Band Selection	Yes via Zebra-only Channel Mask	No	With the TC51-HC, your customers can lock specific mobile devices to specific bands and channels, enabling faster roaming and increased security.

COMPETITIVE COMPARISON: CHINA (CONTINUED)

In the chart below, blue shading indicates the best specification for a specific feature.

	Zebra TC51-HC	Lachesis NDA Nr-510	Why it Matters
Telephony: Voice Support			
Push-to-Talk (PTT) Right Out of the Box	Yes	No	Zebra's Workforce Connect PTT Express is pre-installed and pre-licensed, enabling push-to-talk right out of the box inside the four walls for instant voice collaboration with other workers carrying any PTT Express-enabled Zebra mobile computer.
Comprehensive Push-to-Talk (PTT) Capabilities	Yes	No	Zebra's Workforce Connect PTT Pro delivers advanced PTT features, as well as the ability to communicate with workers inside and outside your four walls, from nurses and physicians to paramedics in the field.
Ready-to-use, Fully Customizable PBX Support	Yes	No	With Zebra's optional Workforce Connect Voice, the TC51-HC can double as a wireless PBX handset, reducing the number of devices that healthcare workers need to carry; IT needs to manage and procurement needs to purchase. This ready-to-use fully-featured voice client: • Supports leading PBXs and the majority of wired desk phone features • Supports up to six different extensions • Is easy to deploy — your PBX can automatically create buttons for supported features which you can place where you like.
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Power			
Battery	14 hours of battery life*; PowerPrecision+ for better battery management; fast charging *Based on typical user profiles	8 hours of battery life	The best-in-class PowerPrecision+ battery delivers up to 14 hours of battery life, ensuring workers have plenty of power for the longest shift.
Warm Battery Swap	Yes	No	With Warm Swap mode, users can change the battery without having to power down the device or close open apps.
Application Compatibility			
Partner Channel	Large; certified application partners include: Secure texting, alerts and VoIP partners Extension Healthcare; Mobile Heartbeat; Spok; Voalte Vocera Point-of-Care partners Allscripts; CareFusion; Cerner; Epic; McKesson; PatientSafe; RMS Omega; SCC	Small partner channel with few certified applications for healthcare	The large Zebra certified partner channel helps ensure existing compatibility with most applications that healthcare customers are utilizing, enabling faster and easier deployments.