

ZEC500 Enterprise Computer

The brains for any job. The power to run any app. The flexibility for any task.

What if you could leverage the same powerful and proven Android enterprise platform that powers your Zebra handhelds and tablets in the many other types of computers your operations require—from desktop computers, digital signage and self-service kiosks to workstations on wheels, in-vehicle computers and more? You've just imagined the ZEC500 Enterprise Computer. This standalone device provides extraordinary flexibility, allowing you to create multi-function enterprise computers tailored to meet just about any computing need in any vertical market—just add the display of your choice and any needed peripherals. The result is a new class of fully-featured enterprise computer with the same reliability, durability, extended lifecycle, security and manageability your Zebra Android mobile devices deliver, complete with full compatibility with the many Zebra DNA tools and Zebra value-add solutions you use today. The ZEC500—the next evolution in enterprise computers.



Maximum flexibility

A complete, advanced standalone Android Enterprise Computer

The ZEC500 offers an advanced Qualcomm® chipset, plenty of memory and the latest version of Android, with support for future versions, providing the brains required to turn any display into an intelligent computer. Qualcomm's robust System-on-Chip (SOC) with a dedicated neural processing unit (NPU) provides the power to make advanced AI capabilities a reality for frontline workers—able to run small language models for translation or transcription and enable generative AI assistants.

Connect to any display

Connect one or two touch or non-touch displays of any size. And support for up to 4K resolution delivers sharp, easy to read text and beautiful, detailed images.

Connect all the peripherals you need, your way

No matter how you are going to use ZEC500 Android computers, you get the versatility to connect all the peripherals you need for the job. HDMI, Display Port, USB-C and USB-A ports, plus Bluetooth and Wi-Fi connectivity options make it easy to add a wired or wireless keyboard, mouse, scanner, printer, speakers and headset.

Wireless Workstation Connect—wirelessly turn your Zebra mobile devices into mobile-powered enterprise computers

Casting made simple

Easily connect and cast your Zebra mobile devices to a larger display through the ZEC500. Just tap a supported Zebra mobile device on the ZEC500, scan a QR code on a connected display or browse for ZEC500 devices in range that are available to connect via the Zebra Wireless Workstation Connect app. And proximity detection automatically connects to previously paired devices or disconnects when workers walk away from the ZEC500.

Screen mirroring or full desktop experience—it's your choice

Get all the capabilities of Zebra's Workstation Connect—without cables or cradles. Mirror the mobile computer screen on a display or enable dual functionality—use the display and connected

peripherals as a true desktop computer, while maintaining complete stand-alone functionality of the Zebra mobile computer—even if it is casting. The result? No missed calls or alerts. And a true hands-free experience.

Create multi-use Android enterprise computers for maximum value

Instead of blanketing your operations with computers that serve a single purpose, now you can create multi-purpose ZEC500-based enterprise computers that can function as standalone interactive self-service kiosks, digital signage and more—and enable workers to turn Zebra mobile devices into desktops when and where they need it to get the job done. The result? Fewer computers to purchase, reducing capital costs. Fewer computers to manage, reducing IT costs. And a stronger return on investment for your flexible ZEC500 Android Enterprise Computers.

Compatible with many Zebra mobile devices

Utilize Zebra Android mobile computers and tablets to create a wireless mobile-powered enterprise computer that adds new functionality to the Zebra devices you already own, while also providing the future-proofing you need to ensure that the ZEC500 you buy today will work with tomorrow's new Zebra devices.

Easy to deploy

A model for just about any environment—indoors and outdoors

Whether you're deploying displays in retail store aisles, in a drive through in a self-service lane, in a garage or exit booth at the airport, there is a ZEC500 model that works. The standard range is ideal for moderate environments—from 32F to +104F (0C to +40C). The extended temperature range is ideal for extreme environments—from -20F to +140F (-29C to +60C). And with IP54 sealing, the ZEC500 is dust-safe and can handle the inevitable spills.

Virtually invisible no matter where you mount it

The VESA-compliant ZEC500 is easy to mount wherever you need it. The small, thin and lightweight device blends into any environment, regardless of whether it's mounted on a wall behind a monitor, under a counter, in a stationary or mobile kiosk or in a mobile cart.

Easy, low-cost installation—no power outlets needed

Enable more flexible, faster and cost effective deployment with PoE++ support. The latest generation of PoE, PoE++ delivers 90 watts of power over a single Ethernet cable—3x the power of PoE and 6x the power of PoE+—easily powering the ZEC500, a display and peripherals, such as a keyboard, mouse, scanner and printer.

Fast wireless connections for a superior user experience

Wi-Fi 6E and Bluetooth 5.3 deliver fast seamless connectivity to your network, with the 'glitch-free' performance your users expect.

Easy to manage and secure

Remotely monitor it all

Configure, secure and manage the ZEC500 remotely via your MDM/EMM. With constant visibility into the status of the ZEC500, you can identify, diagnose and correct issues—before they disrupt business.

Around-the-clock security

LifeGuard™ for Android™ is a lifetime security guard that protects your ZEC500 against cyber attacks by ensuring that the latest Android security patches are installed. And Identity Guardian ensures only authorized workers can access ZEC500s.

The Zebra difference—your Zebra advantage

An extraordinary lifecycle

It's rugged design, future OS version support and guaranteed availability for sale for four years plus service for eight years ensure the ZEC500 will meet your computing needs today and tomorrow.

Unmatched value—Zebra DNA

Manage the ZEC500 with the same tools you already use on all of your other Zebra mobile devices. There's no learning curve for your IT team. The many complimentary apps in this constantly growing toolkit maximize device value by minimizing the effort required to set up, secure, manage and optimize all of your Zebra devices.

Cover it all with a Zebra OneCare maintenance plan

Optional Zebra OneCare Essential and Select provide the comprehensive coverage that maximizes device uptime and device value. If it's broken, we fix it—including accidental damage and normal wear and tear. Choose from around the clock live technical support and same day shipping of replacement devices with Zebra OneCare Select, or a three-day turnaround time with live technical support 8am to 5pm in your timezone with Zebra OneCare Essential. You can add enhancements to tailor either maintenance plan to meet specific needs—such as battery services that prevent unhealthy batteries from impacting workforce productivity and reduce battery costs to device commissioning services that return devices ready to use, right out of the box. And since we designed and built the ZEC500, nobody is more qualified than Zebra to help you get and keep your ZEC500 Enterprise Computers up and running at peak performance.

Specifications

Physical Characteristics	
Dimensions	Standard Temperature Rating (fanless): L x W x H: 4.72 x 4.72 x 1.1 inches (120 x 120 x 28 mm) Extended Temperature Rating (integrated fan): L x W x H: 4.72 x 4.72 x 1.4 inches (120 x 120 x 35 mm)
Weight	Value (Standard Temp): 9.88 oz. (280 g) Value (Extended Temp): 11.64 oz. (330 g) Premium (Standard Temp): 10.93 oz. (310 g) Premium (Extended Temp): 12.7 oz. (360 g)
Power	Value: 24V DC Zebra Power Supply (PWR-BGA24V78W7WW); 12-24V DC power supply with 5.5mm x 2.5mm plug (60W minimum) Premium: 24V DC Zebra Power Supply (PWR-BGA24V78W7WW); 12-24V DC power supply with 5.5x2.5mm plug (60W minimum); Power Delivery Input via USB-C port, Power over Ethernet: IEEE 802.3at/bt
Connectivity	Value: HDMI 2.0, USB-C 3.2 with DisplayPort 1.4, USB-A 3.2 (x3) Premium: HDMI 2.0, USB-C 3.2 with DisplayPort 1.4 and Power Delivery input, USB-A 3.2 (x3), MicroSD Card slot
Network Connections	WLAN (Wireless Local Area Networks) 10/100/1000 Ethernet via RJ45 connector
Notifications	Power LED, Connectivity LED
Audio	HDMI audio, USB and Bluetooth audio peripherals
Buttons	Power and programmable key
Mounting	VESA 75mm mounting points
Performance Characteristics	
CPU	Qualcomm® 5430 octa-core, 2.1 GHz
Operating System	Android; for supported Android versions, visit: www.zebra.com/android-versions
Memory	Value: 6GB; Premium: 8GB
External Display Support	HDMI: 3840x2160 pixels @30fps USB-C: 3840x2160 pixels @60fps Concurrent HDMI and USB-C: 3840x2160 pixels @ 30 fps
General Certifications	Energy Star 8.0
User Environment	
Operating Temperature	Standard Temp: 32°F to +104°F (0°C to +40°C) Extended Temp: -20°F to +140°F (-29°C to +60°C)
Storage Temperature	-40°F to +158°F (-40°C to +70°C)
Humidity	5%-95% non-condensing
Sealing	IP54 per IEC 60529
Vibration	Sine: 4g's peak, 5Hz to 2kHz Random: 0.04 g ² /Hz, 20Hz to 2kHz IEC 60721-3-3 Class 3M2 Profile
Electrostatic Discharge (ESD)	+/- 15 kV air discharge; +/- 8 kV direct discharge; +/- 8 kV indirect discharge
Solar Radiation	IEC 60068-2-5 solar radiation spectral energy distribution; 1120 W/m2 at surface; Environmental temperature: +104°F (+40°C); irradiation duration: 24 hours

Data Capture	
Scanning	Support for external USB and Bluetooth scanners
NFC	ISO 14443 Type A and B; MIFARE, FeliCa and ISO 15693 cards
Wireless LAN	
Radio	IEEE 802.11 a/b/g/n/ac/ax/d/h/i/r/k/v/w/mc; 2x2 MU-MIMO; Tri-band (2.4 GHz, 5 GHz, 6 GHz); Wi-Fi CERTIFIED 6™ (Wi-Fi 6E™); Dual Band Simultaneous; IPv4, IPv6
Data Rates	6 GHz: 802.11ax —20 MHz, 40 MHz, 80 MHz, 160MHz - up to 2402 Mbps 5 GHz: 802.11a/n/ac/ax —20 MHz, 40 MHz, 80 MHz, 160 MHz - up to 2402 Mbps 2.4 GHz: 802.11b/g/n/ax —20 MHz - up to 286.8 Mbps
Operating Channels	Channel 1-13 (2401-2483 MHz): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 Channel 36-165 (5150-5850 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 1-233 (5925-7125 MHz); Channel Bandwidth: 20, 40, 80, 160 MHz Actual operating channels/frequencies and bandwidths depend on regulatory rules and certification agency
Security and Encryption	WPA3 Enterprise 192-bit mode, GCMP256—EAP-TLS; WPA3 Enterprise, AES-CCMP-128—EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP, EAP-PWD; WPA3 Personal (SAE), AES-CCMP-128; WPA/WPA2 Enterprise, TKIP and AES-CCMP-128; WPA/WPA2 Personal (PSK), TKIP and AES-CCMP-128; Enhanced Open (OWE), AES-CCMP-128; WEP 40 bit and 104 bit WAN device only: EAP-SIM, EAP-AKA, EAP-AKA Prime
Certifications	Wi-Fi Alliance Certifications: Wi-Fi CERTIFIED n; Wi-Fi CERTIFIED ac; Wi-Fi CERTIFIED 6 (Wi-Fi 6E); WPA2-Personal; WPA2-Enterprise; WPA3-Personal; WPA3-Enterprise (includes 192-bit mode); Protected Management Frames; Wi-Fi Enhanced Open; WMM (Wi-Fi Multimedia); WMM-Power Save; WMM-Admission Control; Voice-Enterprise; Wi-Fi Direct; Wi-Fi Agile Multiband; Wi-Fi QoS Management; Wi-Fi Optimized Connectivity; Passpoint
Fast Roam	802.11r Fast BSS Transition; PMK Caching; Cisco CCKM; OKC
Wireless PAN	
Bluetooth	Class 2, Bluetooth v5.3 with Bluetooth Low Energy (BLE)
Warranty	
Subject to terms of Zebra's hardware warranty statement, the ZEC500 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	

Markets and Applications

- Retail**
- Digital signage/media player
 - Retail Media Networks
 - Kiosk/self-service
 - Customer support
 - Training stations
 - Staff workstations
- Hospitality**
- Digital signage/media player
 - Check-in/check-out and guest assistance kiosks
 - Staff workstations
- Healthcare**
- Digital signage/media player
 - Check-in kiosk
 - In-room display
 - EHR access/update
 - Admission and discharge forms
 - Training
- Warehouse/Manufacturing**
- Digital signage/media player
 - Employee workstations
- Public Safety**
- Computer Aided Dispatch (CAD)
 - Records Mgmt System (RMS)
 - Information systems (local and national)
 - Law-enforcement applications

Environmental Compliance

RoHS Directive 2011/65/EU; Amendment 2015/863; REACH SVHC 1907/2006
For a complete list of product and materials compliance, please visit www.zebra.com/environment

Recommended Services

Zebra OneCare® Essential and Select support services; Zebra Visibility Services—VisibilityIQ™ Foresight; Learning Services

Footnotes

For the list of compatible hardware, visit <https://www.zebra.com/us/en/support-downloads/interactive-kiosks/zec500.html>
Specifications subject to change without notice

Zebra DNA

Zebra 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/zebradna

Zebra 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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