HC201 Mobile Computer

The cost-effective essential healthcare tool for every caregiver

Introducing the HC201, the purpose-built mobile computer for healthcare workers and more, with all the crucial features you won't find in a consumer mobile device. The next-generation HC2X is designed for every caregiver in hospitals and home health—from clinicians to environmental, patient transport, and meal delivery workers. The new cleanroom certification also makes the HC201 ideal in medical device, semiconductor, and biotechnology manufacturing plants. When it comes to value, the rugged design, long lifecycle, and backwards compatibility with prior generation accessories provide a return on investment that consumer devices just can't offer. Key features include a disinfectant-ready housing, a dedicated emergency duress button, the power to handle any application—including cloud-based AI—and all the data capture and voice communications tools workers need to deliver better care everywhere, from hospitals to home healthcare. The HC201—the essential mobile computer for today's healthcare workers.



Give your healthcare workers a superior user experience

Next-generation processing power for exceptional app performance
With Qualcomm's new Dragonwing™ Q-6690 processor, the HC201 delivers an incredible leap in performance—up to 150% more than legacy HC2x devices.[1] Now, all the apps required can run simultaneously, all with virtually instant response times—including cloud-based AI.

Improve worker safety—call for help with the press of a button
The easily accessible, dedicated red duress button can be integrated with hospital duress and nurse-call alarm systems, and configured to call a specific number—even if the device is locked. The button is strategically placed on the back of the device, where it is easy to activate discreetly—crucial in emergency situations. The recessed button area is easy to find and helps prevent accidental activation.

Engineered for infection prevention and control
Advanced medical-grade plastics enable frequent disinfection and cleaning to minimize the spread of pathogens.

Put the power of mobility in your cleanrooms
Cleanroom certification enables digitized workflows in hospitals as well as medical device, semiconductor, biotechnology and pharmaceutical manufacturing plants. Now, the benefits of mobility are available in areas where contamination control is required, improving workforce productivity, workflow efficiency and data accuracy in cleanrooms.

A more rugged, more advanced display
A two-generation leap in Corning® Gorilla® Glass makes the display more scratch- and shatter-resistant. Liquid droplet rejection and an anti-smudge coating keep the display clean and easy to read all shift long. And the display works equally well with a bare finger or the light gloves typically worn in healthcare environments.

Around-the-clock power for 24x7x365 operation
Healthcare never stops—and neither does the HC201. The removable full-shift battery enables the continual operation hospitals require, so devices stay in the hands of your healthcare workers—instead of in a charger.

Enable every healthcare worker to deliver better care everywhere with the HC201 —the cost-effective essential healthcare mobile computer.
For more information, please visit www.zebra.com/hc201

All the fastest wireless connections
Get fast, no-drop connections and increased network capacity in your facility with Wi-Fi 7 and Zebra's Wireless Fusion[2]. Enable cellular service anywhere in the world with 5G 3rd Gen Release 17—and support for Private 5G and CBRS increases cellular network flexibility.

More rugged and ready for life in healthcare environments
The HC201 is waterproof, drop-proof, and now more tumble-proof, with up to 150% more tumbles than prior generations—reinforced to better survive the repeated impacts that typically occur after a drop.[1] With IP65 and IP68 waterproof sealing, you can wash the device under running water or submerge it in a sink.

Next-level voice clarity and flexibility—hands-free, wireless and wired
Clear communication is vital to delivering exceptional patient care. AI noise suppression utilizes advanced neural networks to suppress more background noises, so you can hear every word on every call in busy emergency rooms and hospital hallways. Give caregivers hands-free voice with the WS101-H—Zebra's tiny, wearable Bluetooth Communication Badge[3] for healthcare—or a wired USB-C or wireless Bluetooth headset.

Maximum comfort, grip and intuitive design
The thin, light, and well-balanced HC201 delivers full-shift comfort. Contoured and sculpted surfaces reduce pressure points and provide any size hand with a secure grip.

Keep your devices safe with multiple layers of security
FIPS 140-3 provides government-grade security that protects sensitive healthcare data. With biometric facial recognition, only authorized users can log into your HC201 devices.[4] LifeGuard™ for Android™ protects your devices against cyber threats through timely OS updates that can be easily deployed how and when you want—including zero-touch, over the air updates.[5]

All the data capture and communications capabilities caregivers need—in one powerful, pocketable device

Next-generation advanced scanning—because every scan matters[6]
Zebra's SR500 is built for all-day scanning with features that enable faster, accurate, and effortless scanning to keep healthcare workers focused on what matters most—the patient. Capture virtually any barcode, in any condition, in any lighting. Silent LED and haptic vibration let you choose scanning feedback that won't disturb patients. The patient-friendly green LED aimer and white illumination can be used even in the NICU. For workers who only require occasional barcode capture, the HC201 is available without a scanner.

Dual cameras improve the quality and speed of care
Capture detailed images to document wound condition and more with the 16 MP rear camera. The new 5 MP front-facing camera enables video calls, connecting caregivers with physicians, specialists, virtual interpreters, patient family members and more experienced team members who can provide needed guidance.

Turn your HC201 into a two-way radio and PBX handset[7]
Enable real-time collaboration between co-workers and physicians by adding push-to-talk. The ability to take calls from the PBX connects healthcare workers to families and other care team members with a simple visual user interface that is easy to use.

Instantly transform the HC201 into a workstation[8]
The HC201 mobile computer doubles as a workstation to enable efficient charting and other intensive data entry tasks, right at the point of care. Zebra's Workstation Connect cradle and ZEC500 Android Enterprise Computer[8] can instantly connect the HC201 to a large display, keyboard, mouse, and printer—reducing the need to purchase and manage workstations.

Capture Unique Device Identifiers (UDIs) and Direct Part Marks (DPMs)
Capture the specialized UDI barcodes required to track medical equipment and surgical instruments. And with Zebra's software-based DPM scanning, you can even capture UDIs printed as direct part marks—without purchasing expensive specialized equipment.

Increase workforce efficiency, device security and device value with Zebra-only software

The Zebra DNA™ difference—a comprehensive suite of no-cost tools
Easily set up, secure, and manage your devices right out of the box with Zebra DNA Core—no cost fundamental software tools that are pre-loaded and ready to use. Upgrade to Zebra DNA Core+[9] for premium tools that further elevate frontline efficiency.

Upgrade to Zebra DNA Advanced for next-level management and security[9]
Get Zebra's top powerful software-as-a-service solutions in one cost-effective suite to enable secure device access, prevent device loss, protect wireless connection quality, simplify development of apps that take advantage of all HC201 features, and enable easy management of all of your DNA Core+ and DNA Advanced apps in an intuitive cloud-based dashboard.

Specifications

Physical Characteristics	
Dimensions	L x H x D: 6.50 x 3.00 x 0.49 inches (165.0 x 77.95 x 12.5 mm)
Weight	8.64 oz. (245 g) with battery
Display	6.0 inch FHD+; 2160 x 1080; Backlight LED, 450 NITS; optically bonded to touch panel; Corning® Gorilla® Glass
Imager Windows	Corning® Gorilla® Glass
Touch Panel	Multi-mode capacitive TOUCH with bare or light gloved fingertip input; liquid droplet rejection; fingerprint resistant anti-smudge coating
Power	User removable, rechargeable Li-Ion, PowerPrecision for real-time battery metrics; Standard capacity: 3800 mAh (14.63 Watt hours)
Expansion Slot	User accessible MicroSD card supports up to 2 TB
SIM	One physical SIM and Dual eSIM
Network connections	WLAN Wi-Fi 7, WPAN (Bluetooth 6.0), WWAN 5G
Notifications	Audible tone; multi-color LEDs; vibration
Keypad	On-screen keypad
Voice and Audio	Stereo speakers; two microphones; audio headset support via USB-C port or Bluetooth wireless headset; BLE Audio 5.3 compatible; VoNR; VoLTE; Cellular Circuit Switch voice; HD voice; VoIP including Full band (FB) and SWB Audio and PTT support Qualcomm® Fluence™ AI Noise Suppression
Buttons	Programmable buttons: Dual scan buttons, Push-to-talk button, volume up/down buttons Safety/Alert: Red Duress Button with emergency dialer feature
Interface Ports	USB Type C (USB 3.1) with sealing plug
Performance Characteristics	
CPU	Qualcomm® Dragonwing™ Q-6690 processor; up to 2.0 GHz
Operating System	Android; for supported Android versions, visit: www.zebra.com/android-versions
Memory	6 GB LPDDR5 RAM/64 GB UFS 2.2 Flash 8 GB LPDDR5 RAM/128 GB UFS 3.1 Flash (not available in NA)
Security	FIPS 140-3 Validated (ISO 19790) and Common Criteria certified (ISO 15408); Supports Secure Boot and Verified Boot

User Environment	
Operating Temperature	14°F to +122°F (-10°C to +50°C)
Storage Temperature	-40°F to +158°F (-40°C to +70°C)
Humidity	5% to 95% non-condensing
Sealing	IP68 and IP65 per IEC 60529 standard
Cleanroom Certification	ISO14644-14 Class 3
Tumble Specifications	750, 1.6 ft. (0.5 m) tumbles
Drop Specifications	Exceeds MIL-STD-810H: 4 ft. (1.22 m) to tile over concrete at +14°F to +122°F (-10°C to +50°C)
Electrostatic Discharge (ESD)	+/- 15 kV air discharge; +/- 8 kV direct discharge; +/- 8 kV indirect discharge
Interactive Sensor Technology (IST)	
Light Sensor	Automatically adjusts display brightness
Motion Sensor	3-axis gyroscope; 3-axis accelerometer
Magnetometer	eCompass automatically detects direction and orientation
Pressure Sensor/ barometer	Designed to measure atmospheric pressure (WWAN SKU only)
Proximity Sensor	Automatically disables the display and touch input when the device is positioned close to the ear
Data Capture	
Scanning	Rest of World: SR500 1D/2D Scan Engine (select SKUs only); Green LED Aimer, White illumination North America: No scanner available; Camera-based scanning, leveraging Zebra's advanced decoder library for accurate and efficient data capture — complimentary with the device
Rear Camera	16 MP f/1.8: Phase Detection Auto Focus (PDAF), balanced white light Flash LED, Torch mode, HDR
Front Camera	5 MP; fixed focus
NFC	NFC ISO 14443 Type A and B; Mifare, FeliCa and ISO 15693 cards, Mifare Desfire EV1, EV2, EV3, EMVCO RR2 compliant, NFC Forum tags 2,3,4,5; Host Card Emulation, Contactless Payment Support, Google Wallet support, VAS (Value Added Services). Apple ECP1.0 and ECP2.0, Apple VAS and Google Smart Tap certified, FeliCa M-Class Certified, VAS Library/SDK (Apple, Google and Samsung Wallet)

Markets and Applications

Facilities

- Hospitals
- Clinics
- Ambulatory centers
- Outpatient facilities
- Nursing/care homes
- Home healthcare
- Hospice/palliative care
- Medical equipment manufacturers
- Pharmaceutical manufacturers
- Cleanrooms in hospitals, biotechnology, high-tech/ semiconductors

Applications

- Clinical note-taking
- Electronic Health Records (EHR)
- Medication administration
- Clinical communications
- Positive patient identification
- Phlebotomy/sample tracing
- Mobile alarms and alerts
- Prescription tracking/dispensing
- Telehealth
- Patient transport
- Environmental services
- Manufacturing quality control (QC)
- Assembly/sterile packaging

Wireless PAN	
Bluetooth	Configurable Class 1 and 2; Bluetooth V6.0 with 2X2 Tx; Chipset-enabled secondary BLE beaconing support

Wireless LAN	
Radio	IEEE 802.11 be/az/mc/ax/ac/n/a/g/b/d/h/i/r/k/u/v/w Tri-band (2.4 GHz, 5 GHz, 6 GHz), 2x2 MU-MIMO Wi-Fi CERTIFIED 7™ MLO (Simultaneous Transmit and Receive MLMR) connection in Tri-band and Dual-band modes: 2.4+5+5, 2.4+5+6, 5+5+6, 5+6, 5+5, 2.4+5, 2.4+6 Dual Band Simultaneous, High Band Simultaneous; IPv4, IPv6; Wi-Fi Aware
Data Rates	**2.4 GHz:** 802.11b/g/n/ax/be—20 MHz—up to 344 Mbps **5 GHz:** 802.11a/n/ac/ax/be—20 MHz, 40 MHz, 80 MHz, 160 MHz—up to 2882 Mbps **6 GHz:** 802.11ax/be—20 MHz, 40 MHz, 80 MHz, 160 MHz, 320 MHz—up to 5764 Mbps
Fast Roam	802.11r Fast BSS Transition; PMK Caching; Cisco CCKM; OKC
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, 320 MHz Actual operating channels/frequencies and bandwidths depend on regulatory rules and certification agency.
Security and Encryption	WPA3 Enterprise 192-bit mode, GCMP-256—EAP-TLS; WPA3 Enterprise, AES-CCMP-128, GCMP-256—EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, EAP-PWD; WPA3 Personal (SAE, SAE-EXT), AES-CCMP-128, GCMP-256 WPA/WPA2 Enterprise, TKIP and AES-CCMP-128; WPA/WPA2 Personal (PSK), TKIP and AES-CCMP-128; Enhanced Open (OWE), AES-CCMP-128, GCMP-256; WEP 40 bit and 104 bit WAN device only: EAP-SIM, EAP-AKA, EAP-AKA Prime

Certifications	Wi-Fi Alliance Certifications: Wi-Fi CERTIFIED 7; Wi-Fi CERTIFIED 6 (Wi-Fi 6E); Wi-Fi CERTIFIED ac; Wi-Fi CERTIFIED n; 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
Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS; TSPEC

Wireless WAN	
GPS/Locationing	GPS, GLONASS, a-GLONASS, Galileo, BeiDou, QZSS, Dual-Band GNSS concurrent L1/G1/E1/B1; (GPS/QZSS, GLO, GAL, BeiDou) + L5/E5a/BDSB2a (GPS/QZSS, GAL, BeiDou), a-GPS; supports XTRA
Radio Frequency Band	Rel-17, Dual SIM/Dual Standby, VoLTE, Gigabit LTE-A, 5G NR Sub-6 (NSA, SA), LTE/NR Carrier Aggregation (CA), LTE CA—Up to 3DLCA, 2ULCA, NR CA: Up to 3DL, 2UL **Bands:** 5G FR1: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/70/71/75/76/77/78/79 4G: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/34/38/39/40/41/42/43/48/66/70/71/106 3G: B1/2/4/5/6/8/19; 2G: (ROW SKU only) 850/900/1800/1900 **4x4 DL MIMO:** 5G FR1: n1/2/3/7/25/30/38/40/41/48/66/70/77/78/79 4G: 1/2/3/4/7/25/30/38/40/41/42/43/48/66/70 **Private Cellular:** B48/106

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

Disinfecting and Cleaning
Highly disinfectant ready; Healthcare plastics support 30+ independently tested types of wipes and disinfectants. For information on Zebra-approved disinfectants and guidelines on cleaning HC2X/HC5X devices, please download the Cleaning and Disinfecting Fact Sheet at www.zebra.com/healthcare-mobile-computers

Warranty

Subject to the terms of Zebra's hardware warranty statement, the HC201 is warranted against defects in workmanship and materials for a period of one (1) year from the date of shipment. For the complete warranty statement, please visit: www.zebra.com/warranty

Recommended Services

Zebra OneCare™ Essential and Select support services; Zebra Visibility Services—VisibilityIQ™ Foresight; For information on Zebra services, please visit www.zebra.com/services

European Union (EU) Cyber Resilience Act (CRA)

For information on how the HC201 meets the EU CRA cybersecurity requirements for hardware and software, please visit www.zebra.com/eucyber

Declaration of Conformity

For other questions about ISO and other safety and operational standards for the HC201, please visit Zebra's Declaration of Conformity page at www.zebra.com/doc

Footnotes

1. Compared to TC21-HC/TC26-HC and HC20/HC25; Performance increase based on AnTuTu (V10) testing
2. Requires an upgrade from Zebra DNA Core to Zebra DNA Core+
3. Optional; requires the purchase of the WS101-H
4. Requires a subscription to Identity Guardian
5. Requires a Zebra OneCare Maintenance Plan
6. SR500 not available in NA
7. Optional; requires the purchase of Workcloud Sync
8. Optional; requires the purchase of the Workstation Connect cradle, the ZEC500 Android Enterprise Computer, and the upgrade to Zebra DNA Core+
9. Optional; requires a subscription

Zebra DNA

For information on Zebra DNA, visit www.zebra.com/zebra-dna. Zebra DNA features vary by model; a support contract may be required. To learn what solutions are supported, visit: https://developer.zebra.com/zebra-dna

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