

WS50, Finger Mount, Proximity Sensor, 2D, USB, BT, Wi-Fi, Android

Unparalleled functionality and flexibility in the world's smallest all-in-one Android enterprise-class wearable mobile computer. Explore Zebra's WS50 - the world's smallest Android enterprise-class wearable mobile computer. It's rugged, modular and at home everywhere - from manufacturing and warehousing to retail and hospitality. It's versatile - this flexible computing core is modular, allowing you to choose the mount that's right for the job: wrist, back of hand or two-finger.

The portable all-in-one mobile computer Zebra WS50 is available in three model variants. The wrist model features a 13-megapixel camera. The models for two fingers and back of the hand mount are equipped with a Zebra SE4770 imager with high data capture performance and enhanced movement tolerance. Via an optionally available proximity sensor there is no need to press the trigger - simply scan continuously.



Despite its lightweight of a mere 70 grams (without the mount) the WS50 is mighty: It is IP65-certified and is impact-resistant from heights up to 1.8 m. The protective front shell may be exchanged, if needed. For reliable connectivity all three model variants are PPT-capable and feature Wi-Fi 5, Bluetooth 4.2 (Low Energy) and NFC. Additional equipment includes programmable keys and a bright 2" AMOLED touch colour display with a high contrast and a large viewing angle. The hot-swappable 800 mAh (wrist model) or 1,300 mAh battery (ring and back of the hand models) provide the mobile computer with plenty of power.

Key features:

- Designed for maximum flexibility
- Rugged design - IP65
- Superior data capture performance
- Zebra's Multi-Code Data Formatting.
- Hot Swap support

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Technical Description

Functionality & Operation	
Operation interface	trigger, 2 programmable buttons
1D Barcode Symbolologies	Code 39, Code 128, Code 93, Codebar/NW7, Code 11, MSI, UPC/EAN, I 2 of 5, Korean 3 of 5, GSI DataBar, Base 32 (Italian Pharma)
2D Code Symbolologies	PDF417, Micro PDF417, Composite Codes, TLC-39,Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Codes, OCR-A, OCR-B
Display type	2" AMOLED 460 x 460 color display, Corning® Gorilla® Glass
Touch-screen panel	capacitive multi-touch , fingertip and glove support
Communication interface	USB-C (USB2.0) host/client and charging
Wireless communication	Bluetooth®, WiFi, NFC
Indicators	Multicolor LEDs , audible tone
Audio	built-in microphone and speaker , PTT, Bluetooth Headset support
CPU Type	Qualcomm® Snapdragon Wear W4100+ Platform/SDA429w, quad-core, 2.0 GHz
Operating system	Android
Memory	1GB RAM, 8GB Flash
WLAN Features	IEEE 802.11 a/b/g/n/ac/d/h/i/r; Wi-Fi™ certified; IPv4,IPv6, 1x1 SISO
WPAN Features	Bluetooth 4.2; Bluetooth Low Energy (BLE) support;Class 1
Optical	
Maximal skew angle	60%
Maximal pitch angle	60%
Resolution	1280 x 800 pixels
Sensors	light sensor, proximity sensor
Bar code scanner	2D Imager SE4770
Light source	Aiming: Element 655 nm Laser, Illumination: Element 1 Hyper Red 660 nm LED or 1 Warm-White LED
Electrical	
Main battery pack	High Capacity (Converged): 5 Watt Hours; 1300mAh PowerPrecision; Hot Swap (2 minutes, memory persistent)
Mechanical	
Dimensions	Width: 62mm, Height: 28mm Length: 64mm
Weight	134g
Environment	
Maximal ambient light	107639lux
Shock resistance	1000 tumbles at 50 cm, multiply drops from 1,8 m onto concrete surface
Operating temperature	-10 to 50°C
Storage temperature	-40 to 70°C
Operating humidity (non-condensing)	5 to 95%
Ingress protection	IP65
Vibrations resistance	4 g's PK Sine, 5hz to 2khz, 1 hour duration peraxis; 0.04 g2/Hz Random (20 Hz to 2 kHz), 1 hourduration per axis
Electrical static discharge	±15kV air, ±8kV contact
Others	

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