

Powerful Wearable Computer for Hands-Free Operation

Zypad WL1500

- **Wearable computer for hands-free operation**
- **Built-in GPS, Wi-Fi, Bluetooth, Cellular**
- **Standard operative system**
- **Wide temperature range**
- **Long battery life**
- **IP 54 Ingress protection rating**



FEATURES

User Friendly operating system – The Zypad WL 1500 runs Windows CE 6.0 allowing standard application development.

Ergonomic Design – Designed to comfortably fit the user's wrist for hands free operations.

Wireless Radio Design – Integrated PAN (Bluetooth), LAN (IEEE 802.11 b/g) and Cellular communication (3.5G).

Multiple I/O – Audio, Integrated USB Device and USB Master ports.

Wide Display – 3.5" High Visibility Display with Touch Screen and Automatic Contrast Adjust. The user comfortably interacts with the device while viewing data and images.

Low Power CPU – Designed for Mobility to Provide High Performance while keeping Battery consumption at the minimum level, Even with Demanding Multimedia Apps.

Enhanced Power Management – Based on Li-Ion cells, allows maximum operating time and saves energy when the operator does not use the computer (patented).

GPS – The integrated receiver and antenna allow the users to easily take advantage of a navigation system and to geographically reference the data sent over the wireless network.

- **Transportation**
- **Logistic**
- **Homeland security**
- **Industrial**

The Zypad WL1500 series of wearable computers give users access to immediate information without sacrificing mobility. The Zypad WL1500 is designed for instant access to computing capabilities while the wearer is carrying out tasks in the field.

Featuring hands-free operation, IP54 protection rate, robust wireless capabilities, and built-in GPS tracking, this versatile wearable computer serves as an ideal tool for emergency search and rescue, healthcare, homeland security, maintenance, law enforcement, logistics, transportation, and defense applications.

The Zypad WL1500 features USB host and client ports, a MicroSD port, touchscreen and audio, and a range of communications capabilities including 802.11, Bluetooth or Zigbee, and GPS. A built-in keypad and touchscreen capabilities allow users to access necessary information quickly and easily. Weighing approximately one pound, the Zypad WL1500 is lightweight and has a long battery life allowing it to run for an entire 8-hour shift.



System Architecture

PROCESSOR	<ul style="list-style-type: none"> • Marvell PXA320
MEMORY / STORAGE	<ul style="list-style-type: none"> • RAM: 128MB Non-Volatile SDRAM • ROM: 128MB Non-Volatile FLASH • Memory expansion: MicroSD Card Slot
OPERATING SYSTEM	<ul style="list-style-type: none"> • Pre-installed Windows CE 6.0 with Advanced Power Management Capabilities
DISPLAY	<ul style="list-style-type: none"> • Display Type: 3.5" Color TFT LCD • Backlight: LED Backlight, Controlled by Ambient Light Sensor or manual setting • Viewing Characteristics: QVGA (320 x 240) Resolution, 65K Colors, High Brightness • User Interface: Resistive Touchscreen (Stylus String Attached)
AUDIO	<ul style="list-style-type: none"> • Mic: Integrated Microphone with Noise Suppression • Speaker: Mono Audio Speaker • Audio Jack: 2.5" Jack for Headset / Stereo Headphones • Bluetooth Audio I/O PCM Codec
KEYBOARD / BUTTONS	<ul style="list-style-type: none"> • 12x Programmable Keys • Power On/Off Button • Programmable Backlight Control
I/O INTERFACES (INSIDE PANEL)	<ul style="list-style-type: none"> • 2x USB Ports (1 Host, 1 Client) • SIM Card Slot • MicroSD Slot • Reset Pushbutton
WIRELESS COMMUNICATIONS	<ul style="list-style-type: none"> • GPS: SIRF III GPS Receiver with Integrated Antenna • WPAN: Bluetooth (Class 1) with Integrated Antenna, Zigbee (Option, In Lieu of Bluetooth) • WLAN: Wi-Fi IEEE 802/11 b/g with Integrated Antenna • WWAN for data connectivity: 3.5G Cellular with Integrated Antenna - UMTS/HSDPA/ GPRS (standard), GSM/GPRS or CDMA (option)
ACTIVITY INDICATION	<ul style="list-style-type: none"> • LEDs for Power ON/Charge, Bluetooth Activity, Wi-Fi/Cellular Activity
POWER	<ul style="list-style-type: none"> • Batteries: Lithium-Ion (Li-ion), Removable, Hot Swappable • Onscreen Battery Status Monitoring (Fuel Gauge), LED Power Status Indication • Charging Support: Over USB (from PC), AC Power Outlet or External Battery Charger
ENVIRONMENTAL	<ul style="list-style-type: none"> • Operating Temperature: -20°C to +50°C (-4°F to +122°F) • Storage Temperature: -30°C to +50°C (-22°F to +122°F) • Humidity: Up to 95% RH, Non-Condensing • Dust Ingress: Dust Resistant (Similar to IP5X) • Water Ingress: Water Resistant (Similar to IPX4)
PHYSICAL	<ul style="list-style-type: none"> • Material: Lightweight Plastic Housing with Adjustable Wrist Strap • Ingress Protection (IP) Rating: IP54 (Dust & Water Resistant) • Weight (with Battery): 450g (~0.99 lbs) • Installation: Wrist-Worn Either Under or Over Clothing, Adjustable to Shape of Forearm for Left or Right-Handed Users
SENSOR	<ul style="list-style-type: none"> • Arm Position Detection: Integrated 3-Axis Accelerometer
BARCODE READER	<ul style="list-style-type: none"> • USB Support for External Bar Code Reader • Special Order Option: Integrated (Factory Installed) 1D/2D Bar Code Reader and Imager with View and Capture Capabilities
ACCESSORIES	<ul style="list-style-type: none"> • Quad Battery Charger • Spare Batteries • External Wearable 1D or 2D Barcode Reader

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