

# Optimus 5900 RFID

## Mobile Computer

Honeywell's Optimus 5900 RFID is a versatile, light industrial mobile computer designed to deliver the benefits of radio frequency identification (RFID) and automated data collection for retail and supply chain enterprises. Offering real-time access to item-level inventory data, the Optimus 5900 RFID enables improved profitability through informed decision making.

The easy-to-use Optimus 5900 RFID terminal provides improved inventory visibility and item ordering through quick and accurate reading of EPC Gen2 and ISO 18000-6B RFID tags, leading to reduced operating costs. Integrated Adaptus® Imaging Technology 5.0 provides advanced image-based data capture capabilities, allowing workers to perform all inventory management and mobile computing tasks on a single device.

Integrated 802.11b/g wireless connectivity provides users with access to critical data throughout the enterprise, while Bluetooth® wireless connectivity facilitates efficient wireless connection to peripheral devices. Advanced security protocols ensure data accuracy and security.

The device's flexible industrial design can be operated with or without the attached handle, providing workers with comfortable usage options for various scenarios. The large 3.5" touch screen display and intuitive keyboard simplify application viewing and data entry, further enhancing worker productivity and satisfaction.

Built to withstand the rigors of daily use, the IP54-rated Optimus 5900 RFID can endure exposure to dust, dirt and splashing water, as well as accidental drops from distances as high as 1.2 meters.

A high capacity battery teamed with advanced power management technology delivers up to 10 hours of continuous use, improving worker efficiency and lowering battery replacement costs.

The multi-purpose Optimus 5900 RFID mobile computer provides enterprises with the ability to perform RFID reading, bar code scanning and line of business computing in a single, reliable device, leading to increased productivity and profitability.



## Features

- **Integrated RFID Reading:** Reduces the duration of inventory cycle counts by quickly and accurately reading EPC Gen2 and ISO 18000-6B RFID tags
- **Versatile, High Performance Data Collection:** Adaptus Imaging Technology 5.0 reads linear and 2D bar codes, captures digital images, and enables electronic signature capture—allowing workers to do more with a single device
- **Complete Hardware Kit:** Includes all device components in a single kit—terminal, battery, USB/Ethernet charge cradle, power supply, USB cable, stylus, and hand strap
- **Real-Time Wireless Communication:** Advanced integrated 802.11b/g and Bluetooth® wireless connectivity deliver real-time network access to critical information while supporting advanced wireless security standards
- **Powerful Software Utilities:** Comprehensive suite of intuitive software utilities simplify device configuration, application development, and remote device management
- **Engineered for Reliability:** Constructed for use in light industrial in-premise environments

# Optimus 5900 Technical Specifications

## Mechanical/Environmental

<b>Dimensions</b>	80 mm x 215 mm x 95 mm (3.15" x 8.46" x 3.74"); At Grip: 55 mm x 36 mm (2.17" x 1.42")
<b>Weight</b>	21 oz (595g)
<b>Operating/Storage Temperature</b>	Operating: 50°F to 122°F (10°C to 50°C); Storage: -4°F to 158°F (-20°C to 70°C)
<b>Humidity</b>	95% humidity, non-condensing
<b>Drop/Tumble</b>	Drop: 4 cycles from 1.2m drops to concrete; Tumble: 250 (1m) tumbles per IEC 60068-2-32 specification
<b>Environmental Sealing</b>	Certified to meet IP54 standards for moisture and particle resistance
<b>ESD</b>	±8kVdc direct discharge; ±12kVdc air discharge

## System Architecture

<b>Operating System</b>	Microsoft® Windows® CE5.0
<b>Processor</b>	PXA300 (624MHz - dynamic freq. mgmt)
<b>Memory</b>	RAM: 128 MB RAM; FLASH: 256 MB FLASH memory
<b>Storage Expansion</b>	Micro SD memory card slot (user installed)
<b>PC Communications</b>	Full speed USB v1.1 (12Mbps). USB host v1.1 is only for e-cradle which is based on a USB to ethernet chip
<b>Serial Communications</b>	RS232 rates: 9600bps, 19.2kbps, 38.4kbps, 57.6kbps, 115.2kbps
<b>Display</b>	3.5" Transmissive, LCD with backlight QVGA (240x320)
<b>Touch Panel</b>	4-wire analog resistive touch
<b>Battery</b>	Li-Ion 3.7V 5,000mAh (ships with every terminal)
<b>Expected Hours of Operation</b>	WiFi / RFID tag reading: Up to 10 hours using default terminal power management settings, use case and application dependent
<b>Audio</b>	Microphone, speaker
<b>Keypad</b>	28-key numeric keyboard, side scan triggers, withstands 500K times press (force: 300g/ø2.0)
<b>I/O Ports</b>	Full speed USB 1.1 from cradle (or I/O cable); RS232 (115 Kbps) and Ethernet connectivity from cradle
<b>Decode Capabilities</b>	Reads standard 1D and 2D symbologies
<b>2D Imaging Specification</b>	Adaptus 5.0: 5300SR with std. LED notification on front of the device, vibrator also can indicate scan

## RFID

<b>Frequency</b>	902~928MHz (FHSS)
<b>Power</b>	MAX 1 Watt

## Wireless Connectivity

<b>WLAN</b>	Dual Mode 802.11 b/g (11 Mbps/54 Mbps) with internal antenna
<b>WLAN Security</b>	Wi-Fi Alliance Certification, Wireless Security Suppliant (Summit) 802.1x, WEP, WPA, LEAP, TKIP, MD5, EAP-TLS, EAP-TTLS, WPA-PSK, WPA v2.0, PEAP CCXv4
<b>WPAN</b>	Bluetooth® Class II (10 m) v2.1 Enhanced Data Rate (EDR) with on-board antenna. BQB certified

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