SP5600 OptimusR

Mobile Computer

Honeywell's SP5600 OptimusR™ mobile computer provides a rugged solution for batch data collection applications in demanding environments including dusty warehouses, steamy stockrooms, wet loading docks and freezing distribution centers.

Incorporating WiFi® communication technology (802.11 b/g), the SP5650 OptimusRW easily integrates with standard wireless networks for long range, real-time data transfer up to 250 meters.

Engineered for durability, the OptimusR series offers an IP65-rated design that is impervious to water, dust and dirt. Its reinforced housing protects the computer in falls from heights as high as 1.2 meters.

Ergonomic design features large, backlit computer keys for single hand operation. OptimusR further lowers the cost of ownership by rapidly downloading data through a direct-connection option which eliminates the expense of a terminal cradle.

OptimusR comes with 2MB of memory (4MB & 8MB optional) for accommodating larger inventories. It maximizes uptime and labor efficiency with a rechargeable battery which provides 200 hours of continuous scanning operation per charge.*

OptimusRW comes with 256 KB of data memory (2MB, 4MB & 8MB optional) for accommodating larger inventories. The Lithium-ion rechargeable battery allows for over 40* hours of scanning.

For more information on the SP5600 OptimusR mobile computer, please visit www.honeywell.com/aidc

Features

- **Plastic Housing with Integrated Rubber:** Reinforced unit construction enhances durability

- **IP65-Rated:** Protects components from harsh and demanding environments

- **Rechargeable Battery:** Maximizes uptime and labor efficiency

- **Optimizer Software Suite:** Graphical software package makes setup and use quick and easy

- **Ergonomic Design with Large, Backlit Keys:** Shape and key placement facilitates comfortable one-handed operation

- **IEEE802.11 b/g with WPA:** Advanced wireless connectivity provides secure, real-time data transfer (SP5650 only)

Use-case/network traffic dependant.

SP5600 OptimusR Technical Specifications

System Architecture

CPU	16-bit CMOS, low power consumption
Memory	Program memory: 2 MB flash ROM Data memory: SP5600: 2 MB SRAM (4 MB or 8 MB optional) SP5650: 256 KB (2 MB, 4 MB or 8 MB optional)
Display	LCD - 128 x 64 pixels, back-lit
Battery	Main: 3.7 V, 1800 mAh Li-ion rechargeable; Back-up: 3.7 V, 7.0 mAh Li-ion rechargeable
Imager/Scanner	Laser scanner: visible laser diode (650nm)
Keypad	24 rubber keys; alpha/numeric, function, scanner (optional 39 keys)
Audio	Programmable buzzer 1 kHz – 4 kHz
I/O Ports	Unit: USB, RS232, IrDA, Cradle-IR or WiFi (SP5650 only); Cradle: USB, RS232
Development Environment	Windows-based Optimizer; optional C & BASIC compilers

Wireless Connectivity

WLAN	IEEE802.11 b/g (up to 54 Mbps)
WLAN Security	64/128 bit WEP, EAP, WPA-PSK (TKIP)

Physical & Environmental

Dimensions (LxWxH)	Terminal: 47 mm x 82 mm x 172 mm (1.8˝ x 3.2˝ x 6.8˝); Cradle: 106 mm x 96 mm x 80 mm (4.2˝ x 3.8˝ x 3.1˝)
Weight	300 g (10.6 oz) - including batteries
Temperature	Operating: 0°C to 50°C (32°F to 122°F); Storage: -30°C to 60°C (-22°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Drop	Designed to withstand 1.2 m (4´) drops
Sealing	IP65
ESD	±15 KV air; ±8 KV direct

Regulatory & Compliance

Safety	IEC 60950-1, CE, UL, C-Tick
EMC	FCC Part 15, ICES-003, EN55022 Class B
Radio	FCC, IC, BSMI, CE, C-Tick, MIC
Laser Class	Class 2; IEC60825-1; EN60825-1
Decode Capabilities	Reads standard 1D and 2D symbologies. Visit www.honeywell.com/aidc/symbologies for details.

Typical Performance*	
Narrow Width	Depth of Field
5.2 mil	76 mm - 127 mm (3.0˝ - 5.0˝)
7.5 mil	64 mm - 203 mm (2.5˝ - 8.0˝)
10 mil	51 mm - 279 mm (2.0˝ - 11.0˝)
13 mil	51 mm - 381 mm (2.0˝ - 15.0˝)

*Resolution: 5 mil (0.127 mm)
*Performance may be impacted by bar code quality and environmental conditions

For more information:

www.honeywell.com/aidc

Honeywell Security & Data Collection

Honeywell Scanning & Mobility

90 Coles Road

Blackwood, NJ 08012

856.228.8100

www.honeywell.com

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