SP5500 OptimusS

Mobile Computer

Honeywell's SP5500 OptimusS™ is a compact portable data terminal designed for retail and light warehouse data collection applications, including inventory, stocking, order-picking and shipping/receiving.

The SP5535 OptimusSBT™ incorporates Bluetooth® connectivity for real-time data transfer and easy integration with any Class 1 Bluetooth® peripheral.

OptimusS and OptimusSBT feature navigation and software development tools that make customizing applications for even the toughest data-collection challenges a snap.

Each OptimusS comes with the Optimizer software package to facilitate application development. This graphically-oriented program allows even computer beginners to quickly and easily setup the applications they wish to run on their terminal. There are also several simple utilities for uploading and downloading of data. The entire software suite is designed to make application development a painless process.

Both devices come with software for quick configuration to any mobile computing program or database. Their 2MB of memory accommodate large inventories and rechargeable batteries provide hours of scanning operation (OptimusS: 100 hours; OptimusSBT: 36 hours).

For more information on the SP5500 OptimusS mobile computer, please visit www.honeywell.com/aidc

Features

- **LCD Display with Backlight and Adjustable Font:** Easy to view screen to accommodate different users and environments

- **Small Form Factor:** Same feature set as bulkier units in a lighter, easier to handle package

- **Cradle Communicates RS232 and USB:** One cradle does both, so a simple cable swap gives users quick-change ability

- **Fully Charged Battery Lasts Aproximately 100 Hours:** Minimizes down time; speeds up the inventory process

- **Several Programming Options (Optimizer, BASIC, C):** Accommodates different levels of programming skills from beginner to advanced (SP5500 only)

- **Class 1 Bluetooth Technology:** Allows real-time data transfer up to 100 meters to a variety of devices

SP5500 OptimusS Technical Specifications

Operational

Light Source	Visible Laser Diode 650 nm ± 10 nm
Visual Indicators	LED: Dual-color; programmable green or red
CPU	16-bit CMOS, low power consumption
Program Memory	1 MB flash ROM
Data Memory	2 MB SRAM
Display	LCD - 100 x 64 pixels, back-lit
Display Resolution	8 lines x 16 characters (max), 4 lines x 12 characters (min)
Keypad	21 rubber keys; alpha/numeric, function, scanner
WPAN (Optional)	Class 1 Bluetooth (up to 100 m)
Host System Interfaces	Unit: Cradle IR, Class 1 Bluetooth (optional); Cradle: USB, RS232
Application Development	Windows-based Optimizer; optional C & BASIC compilers

Mechanical/Electrical

Dimensions (LxWxH)	Terminal: 137 mm x 55 mm x 28 mm (5.4˝ x 2.2˝ x 1.1˝); Cradle: 58 mm x 92 mm x 110 mm (2.3˝ x 3.6˝ x 4.3˝)
Weight	140 g (4.9 oz) - including batteries
Laser Class	Class 2: IEC60825-1; EN60825-1
EMC	FCC Part 15, ICES-003, EN55022 Class A

Battery

Battery	Main: 3.7 V, 700 mAh Li-ion rechargeable; Back-up: 3.0 V, 7 mAh Li-ion rechargeable
Expected Hours of Operation	SP5500: over 100 hours; SP5535: over 36* hours *depends on use-case and network traffic
Expected Charge Time	Less than 2 hours

Environmental

Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Drop	Designed to withstand 1.2 m (4´) drops

Scan Performance

Scan Pattern	Single scan line
Scan Speed	100 scan lines per second
Print Contrast	35% minimum reflective difference
Decode Capability	Code 39, Code 93, Code 128, UPC/EAN/JAN, Code 2 of 5, Code 11, Codabar, MSI Plessey, GS1 DataBar, Telepen, Trioptic

Typical Performance*	
Narrow Width	**Depth of Field**
5.2 mil	70 mm - 95 mm (2.8˝ - 3.8˝)
7.5 mil	57 mm - 171 mm (2.3˝ - 6.8˝)
10.4 mil	50 mm - 210 mm (2.0˝ - 8.3˝)
13 mil	50 mm - 254 mm (2.0˝ - 10.0˝)
19.5 mil	75 mm - 300 mm (3.0˝ - 11.8˝)

*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

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