

# Falcon® 5500

RFID Mobile Computer



## Features

- Mobile Hybrid Computer combines bar code and UHF RFID automated data capture technologies
- UHF RFID supports multiple EPC protocols
- Tag read rates provide a flexible solution for item level inventories or pallet verification
- Design accommodates future RFID readers and antenna for tailored applications
- Standard, Long Range, Advanced Long Range Integrated Laser Scanner and Linear Imager Options
- Supports Cisco Aironet (802.11b)

## Accessories

- Single-Slot Dock
- Battery Charger for Falcon swappable battery



The Falcon 5500 product family has tested compatible with Cisco's wireless solution. The Cisco Compatible logo signifies that PSC's product has undergone interoperability testing by PSC together with Cisco and a third-party test house based on testing criteria set by Cisco. PSC is solely responsible for the support and warranty of its product. Cisco makes no warranties, express or implied, with respect to PSC's product or its interoperability with the listed Cisco product(s) and disclaims any implied warranties of merchantability, fitness for a particular use or against infringement.



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# Data Sheet

## RFID Specifications

**Tag & Protocol Support:** Class 0, Class 1  
**Software Upgrade:** Class 1 Generation 2  
**RFID Tag Read Rate:** 100 in 7 seconds; 400 in 90 seconds  
**RFID Tag Write Rate:** 1 tag per 0.5 second  
**Antenna:** 3dB Width, 180° Forward  
**Operating Frequency RFID:** 902MHz to 928MHz  
**Polarization:** Linear Vertical  
**Read Range:** 5'  
**Write Range:** 6'

## Mechanical

**Dimensions**  
**Length:** 9.2" / 23.3 cm  
**Width at display:** 3.4" / 8.6 cm  
**Width at grip:** 2.5" / 6.4 cm  
**Height at grip:** 1.7" / 4.3 cm  
**Weight:** 43 oz. / 1.22 kg  
**Display:** 3.5" active matrix TFT QVGA display; 320 x 240, pixels; 64K colors  
**Indicators:** Good read LED; scan LED  
**Keypads**  
 26-Key Standard Alphanumeric, 5 dedicated function keys, 5 shifted, navigation rocker  
 52-Key Full Alphanumeric, 5 dedicated function keys, 15 shifted, navigation rocker, 5250 support  
**Construction:** Industrial, polycarbonate/ABS-blend plastic

## Environmental

**Temperature Rating**  
**Operating:** 14° to 122° F / -10° to 50° C  
**Storage:** -13° to 158° F / -25° to 70° C  
**Humidity:** 5 to 95% NC  
**Shock:** Multiple 4.0' / 1.2m drops to concrete  
**Dust & Particulate:** IEC 529  
**Water:** IEC 60529

## Optical

Optical	Laser Scan Engine		Linear Imager
	SR*	LR*/XLR*	
Light Source	650 nm	650 nm	645nm
Scan Rate	35 ± 5 scans/sec.	35 ± 5 scans/sec.	36 ± 5 scans/sec.
<b>Ambient Light Immunity</b>			
Artificial Light	450 ft. candles/ 4,844 lux	450 ft. candles/ 4,844 lux	9,290 ft. candles /100,000 lux
Sunlight	8,000 ft. candles /86,112 lux	8,000 ft. candles /86,112 lux	9,290 ft. candles /100,000 lux

\* Key: SR = Standard Range, LR = Long Range, XLR = Advanced Long Range.

## Decoding Capability (autodiscrimination)

- Codabar • EAN 8, 13 • Matrix 2 of 5 • Interleaved 2 of 5
- Code 39 • UPC A, E • RSS-14 • Pharamacode 39
- Code 93 • MSI • RSS Expanded • Standard 2 of 5
- Code 128 • Trioptic • RSS Limited • UPC/EAN Extensions

## System

**Operating System:** Windows® CE.NET  
**Microprocessor:** Intel® XScale™ PXA255, 400 MHz  
**Memory:** RAM: 64 MB; Flash: 64 MB  
**Communications Port:** USB 1.1 (ActiveSync) & RS232 (ActiveSync and other RS232 protocols)  
**Dock Communications:** USB 1.1 (ActiveSync) & RS232 (ActiveSync and other RS232 protocols)  
**PC Card:** Internal PC Card Type I/II slot  
**Beep Tone:** 86dBA (at 24" / 61cm) / 100dBA (at 10 cm) (typical) Programmable for pitch and duration  
**Power Options**  
**RFID Rechargeable:** Captive Lithium Ion battery pack (2200 mAh)  
**Rechargeable Li-Ion:** battery pack (2000 mAh)  
**Advanced Power Management:** (without PC Card & backlight): Sleep/off mode with programmable timeout: 5 mA; Idle mode: 60 mA (typical); Operating mode: 155 mA (typical). Rechargeable lithium backup battery; Low battery indicator (display icon)  
**Radio Support:** Cisco Aironet (802.11b)  
**System Support:** VT100/220, HP700/92, IBM 3270/5250 terminal emulators; Browser support via Microsoft® Internet Explorer; TCP/IP Communications  
**Management Tools:** Falcon Desktop Utility (FDU) for security & configuration. Falcon Management Utility (FMU) or Wavelink® Avalanche for remote device management & software distribution  
**Development Environments**  
 Many standard Windows CE development tools, (Embedded Visual C++, Visual C#.NET, Visual Basic .NET, Personal Java 1.1), Java Virtual Machine (JVM), Falcon® CE Developers Toolkit, and Wavelink® Studio.

## Safety and Regulatory

**Electrical:** EN60950, UL60950, CSA60950  
**Battery:** IATA/UN  
**Emissions:** FCC Part 15C and 15B  
**Radio:** FCC Part 15: 247  
**RFID:** FCC Part 15C rules and IC  
**Laser classification:** CDRH Class II

(CAUTION: Laser Radiation—do not stare into beam), IEC 60825-1, Class 2



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