

Falcon® 5500

RFID Mobile Computer

Data Sheet



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 running on Windows CE 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 inter-operation 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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RFID Specifications

Tag & Protocol Support: Class 0, Class 1

Software Upgrade: Class 1 Generation 2

Class 0 Read Rates:

- 100 tags in 7 seconds
- 400 tags in 90 seconds

Class 1 Write Rate:

- 1 tag in 0.5 seconds

Antenna: 3dB Width, 180° Forward

Operating Frequency RFID: 902MHz to 928MHz

Polarization: Linear Vertical

Read Range: 5' / 1.5 m

Write Range: 12' / 15.2 cm

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' / 1.2 M drops to concrete

Dust & Particulate: IEC 529

Water: IEC 60529

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

Optical

Optical	Laser Scan Engine		Linear Imager
	SR*	LR*/ALR*	
Light Source	650 nm	650 nm	645nm
Scan Rate	35 ± 5 scans/sec.	35 ± 5 scans/sec	36 ± 5 scans/sec.
Ambient Light Immunity			
Artificial Light	4,844 lux	4,844 lux	100,000 lux
Sunlight	86,112 lux	86,112 lux	100,000 lux
* Key: SR = Standard Range, LR = Long Range, ALR = Advanced Long Range.			

System

Operating System: Windows® CE

Microprocessor: Intel® XScale™ PXA255, 400 MHz

Memory: RAM: 64 MB; Flash: 64 MB

Communications Port: USB 1.1 (ActiveSync) & RS-232 (ActiveSync and other RS-232 protocols)

Dock Communications: USB 1.1 (ActiveSync) & RS-232 (ActiveSync and other RS-232 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

