

Falcon[®] 4220

Windows[®] CE .NET PDA



Features:

- Intel[®] XScale™ PXA255 400MHz processor
- Windows CE .NET 4.2 Operating System
- Integrated bar code scanner (Laser or Linear Imager)
- Ruggedized (IP54 & 4' Drop)
- Optional Handle for Scan Intensive Applications
- Open Architecture – user accessible SD and CF slot
- 802.11b Wireless LAN (optional)
- Optional Docking Station with spare battery charger

The Falcon[®] 4220 is PSC's latest generation PDA device, combining a compact, ruggedized form factor with the flexibility of Microsoft's CE .NET operating system. The Falcon 4220 is designed for retail, warehousing and logistics applications where maximum performance and durability is required in a compact handheld device.

Performance is Power

Under the hood, the Falcon 4220 uses cutting edge technologies from the leaders in mobile and wireless technology, such as Microsoft, Intel, Agere and others.

The Falcon 4220 features the Intel[®] XScale™ PXA255 400MHz processor and the Microsoft™ Windows CE .NET operating system, providing you with the power and flexibility to deploy sophisticated mobile applications in your enterprise.

The Intel XScale processor provides you with the highest performing mobile processor available today along with advanced power management capabilities for extended battery life. Microsoft's Windows CE .NET operating system gives you the freedom to select the software solution that best meets your needs.

Rugged Yet Versatile

The Falcon 4220 is designed from the ground up for rugged applications. With its IP54 sealing, 4 foot (1.2m) repeated drops to concrete, and wide operating temperature range, the Falcon 4220 stands up to most any demanding application.

Easy To Read Color Display

The Falcon 4220 incorporates the latest technology in Color TFT displays. With its super-bright, high contrast display, the 4220 works as well outdoors as it does inside. The integrated touchscreen allows for pen/touch based input and handwriting recognition.

Maximum Flexibility

The Falcon 4220 offers maximum flexibility with both a user accessible Compact Flash (CF) slot and a Secure Digital (SD) slot.



Specifications

Falcon® 4220

Mechanical

Dimensions

Length: 6.6" / 16.8 cm
Width: 3.1" / 7.8 cm
Height: 1.3" / 3.3 cm

Weight

With battery 12.7 oz / 360 g
Without battery 11.1 oz / 315 g

Display

3.5" / 8.9 cm 240 x 320 graphic, transfective TFT
256,000 colors
Sunlight readable (for outdoor use)

Keypad

17 plus 4-way navigation

Construction

Industrial, high-strength polycarbonate/
ABS-blend plastic

Environmental

Temperature rating

Operating: 14° to 122° F / -10° to 50° C
Storage: -4° to 140° F / -20° to 60° C

Humidity: 5 to 95% NC

Shock: multiple 4.0' / 1.2m drops to concrete

Water & Dust: IEC529 rating IP54

Optical

Laser

Light source:

650nm VLD

Scan rate:

39 scans/second nominal

Depth of Field: see chart below

Linear Imager

Light source:

617nm Highly Visible LED

Scan rate:

Up to 200 scans/second

Depth of Field: see chart below

LASER Depth-of-Field Chart –

(printing resolution, contrast and ambient light dependent,
* Minimum distance determined by symbol length and scan angle)

Label Density	Typical Range	
5 mil	2.2" to 5.0"	5.6 to 12.7 cm
7.5 mil	1.8" to 7.5"	4.6 to 19.1 cm
10 mil	2.0" to 9.7"	5.1 to 24.6 cm
13 mil	2.0" to 12.0"	5.1 to 30.5 cm
20 mil	* to 15.0"	* to 38.1 cm
40 mil	* to 22.0"	* to 55.9 cm
55 mil	* to 29.0"	* to 73.7 cm

Decoding Capability (autodiscriminates between)

ID Scan Engine

- Code 4
- Code 32/Italian Pharmacy
- Code 39
- Code 128/UCC EAN 128
- China Postage/Datalogic 25
- EAN-8 Convert to EAN -13
- EAN-13/UPC-A
- Industrial 2 of 5
- ISBN
- Matrix 2 of 5
- UPC-E Convert to UPC-A
- UPC-EAN Add-on 2/5
- Code 11
- Code 93
- Codabar/NW7
- EAN-8/JAN-8
- IATA-25
- Interleaved 2 of 5
- Korea Code 35
- MSI/Plessey
- UPC-E

Indicators

- One triple-color LED for ALARM notification (R) and charger indicator (G/B)
- One dual-color LED for scanner indicator

Safety and Regulatory

Battery: EN60950, UL60950-1

Electrical: EN60950, UL60950, CSA 60950,

Emissions: FCC Part 15-B, VCCI, CISPR 22

Radio: FCC Part 15-C, R&TTE

Linear Imager Safety: Class 1 LED (Europe)

Laser classification: CDRH Class II;

(CAUTION: Laser Radiation –
do not stare into beam)
IEC 60825-1



System

Operating System

Windows® CE .NET 4.2

Microprocessor

Intel® XScale™ PXA255, 400 MHz

Memory

64MB flash ROM
64MB SDRAM

Communication Ports

Infrared: One IrDA 1.2 compliant port
Serial: RS232 via optional cable or cradle
USB: Supports USB v1.1 both host and client (dock and terminal)

I/O Slots

One SD card slot
One Compact Flash Type II slot (3.3V)

Audio

One mono speaker
2.5mm stereo earphone jack with
microphone input (headset)

Power Options

1800mAh Li-Polymer removable/rechargeable battery
Optional 2700mAh hour battery
25mAh rechargeable backup battery (Holds system data at least 2 hours without main battery)
AC adapter with 100-240 Vac, 50-60Hz
Support for Xscale application modes including:
Turbo Mode, Normal Mode, Idle Mode, Sleep Mode

Radio Support

Optional integrated 802.11b

System Support

VT100/220, HP700/92, IBM 3270 & 5250
terminal emulators
Browser support via Microsoft® Internet Explorer
Wireless software distribution and terminal configuration via Falcon Management Utility (FMU)
TCP/IP Communications

Development Environments

Many standard Windows CE development tools
(Embedded Visual C++, Visual C#, Visual Basic, .NET, Personal Java 1.1)
Java Virtual Machine (JVM)
Falcon® CE Developers Toolkit
Wavelink Studio and Avalanche

Docking Station

Spare battery charging slot
USB host and client interface
Standard RS232 communication
Ethernet module ready (optional)

PSC Inc.

959 Terry Street
Eugene, OR 97402-9150 USA
Tel: 800 695 5700 or 541 683 5700
Fax: 541 345 7140

Specifications are subject to change without notice.

Additional information concerning this product or other PSC products and services can be found at the PSC website: www.pscnet.com, or contact your PSC representative for more information.



PSC Worldwide Sales and Service locations

Australia - NSW

Tel: 61 2 9878 8999
Fax: 61 2 9878 8688

Belgium

Tel: 32 2 414 74 09
Fax: 32 2 410 11 63

Brazil

Tel: 55 11 5507 7721
Fax: 55 11 5507 7696

Chile

Tel: 562-339-7000
Fax: 562-339-7985

China

Tel: 86 10 6857 9048
Fax: 86 10 6857 8699

France

Tel: 33 1 64 86 71 00
Fax: 33 1 64 46 72 44

Germany

Tel: 49 6151 93580
Fax: 49 6151 935897

Hong Kong

Tel: 852 25846210
Fax: 852 25210291

India

Tel: 91 11 24621586
Fax: 91 11 24641662

Italy

Tel: 39 039 629031
Fax: 39 039 6859496

Japan

Tel: 81 3 3491 6761
Fax: 81 3 3491 6656

Latin America

Tel: 1 305 539 0111
Fax: 1 305 539 0206

Singapore

Tel: 65 6435 1311
Fax: 65 6226 1242

Spain

Tel: 34 91 746 28 60
Fax: 34 91 742 35 33

Sweden

Tel: 46 4010 84 92
Fax: 46 4010 84 91

United Kingdom

Tel: 44 1923 809500
Fax: 44 1923 809505