Falcon® 4210

Windows® CE PDA Data Collector

Flexible Mobile Computing Featuring Windows® CE

The new Falcon® 4210 is a compact, rugged handheld computer combining the flexibility of Microsoft's® Windows® CE operating system and applications with RF data communications, bar code scanning and optional magnetic stripe card processing. The Falcon® 4210 is designed for retail, logistics, and field service applications where maximum performance is required in a compact form factor.
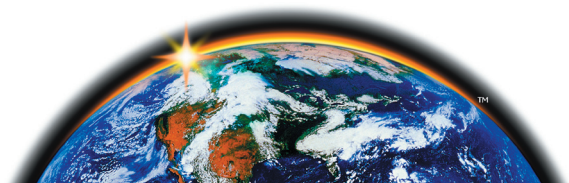
Features Users Demand

The Falcon® 4210 incorporates all the top features users are demanding today. Laser, Magnetic Stripe Input, and large 1/4 VGA touch screen display. A user accessible PC Card slot allows easy expansion for additional memory, modem, or RF communications. A built-in 16 key numeric keypad provides additional ease of data entry. Tested to repeated 4.0' / 1.2M drops to concrete, the Falcon® 4210 is designed to handle demanding data collection tasks.

Ready to Run

The Falcon® 4210 includes Microsoft® Pocket Word, Pocket Internet Explorer (browser), and Inbox (email) applications so you are ready to run right out of the box. Application development is a snap with Windows® CE as many 3rd party development tools are available for both batch and RF environments. Additionally, PSC offers a variety of development tools for the Falcon® 4210 including RFBuilder, and our PowerNet terminal emulation solution for VT100, VT220, HP700/92, IBM 3270, and IBM 5250 emulations.

Batch and Wireless Models

For both local and remote data collection applications, the Falcon® 4210 Batch portable is an ideal solution. Data can be sent to a host using standard RS232 communications using the docking cradle or a direct connect cable. An optional integrated modem kit is available for dial-up communications supporting speeds up to 56Kbps. The Falcon® 4210 RF portable sets the standard for flexibility when it comes to wireless communications, providing connectivity for data collection applications where real-time information is critical. The Falcon® 4210 is available with the leading 802.11b radios including Cisco Aironet, Lucent (Agere) Orinoco, and Symbol S24 HR providing interoperability with other leading WiFi compliant radios.

Ideal For:

- Retail Store Management
- Line Busting
- Inventory Control
- Logistics
- Field Service

Features:

- Compact/weighs under 12.9 oz / 365 grams
- Laser and Mag Stripe input
- Windows® CE 3.0 Operating System
- WiFi compatible (802.11b) RF providing Real-Time communications
- Numeric keypad for ease of data entry
- Microsoft® Pocket Applications included

Specifications
Falcon® 4210

These product 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 or contact your PSC representative for more information

Mechanical

Dimensions
Length: 6.85" / 17.4 cm
Width: 3.35" / 8.5 cm
Depth: 1.57" / 4.0 cm
Weight (w/battery pack): 12.87 oz. / 365 g
Display
FSTN panel, grayscale LCD, EL Backlit
240 (W) x 320 (L) pixels
Keypad
16 physical keys including numeric, TAB, ESC, FUNC, brightness and contrast controls

Environmental

IP rating: IP 42
Temperature rating
Operating: 32° to 122° F / 0° to 50° C
Storage: -4° to 158° F / -20° to 70° C
Humidity: 5 to 95% RH non-condensing
Shock: Withstands multiple 4.0' / 1.2m drops to concrete

Communication

RS232C: Full duplex asynchronous communication; up to 115,200 baud rate
Infrared: IrDA 1.2 (SIR) compliant; up to 115,200 baud rate
PCMCIA: Type II slot accepts memory, modem, and RF cards

Optical

Light source: Visible Laser Diode (VLD) 650 nm
Scan rate: 39 ±3 scans/sec. (*1D Laser*)
Depth-of-Field: See chart below

Decoding Capability

1D Laser:

UPC A, E / EAN 8,13	EAN 128
Code 128	Code 93
Interleaved 2 of 5	Standard 2 of 5
Code 39	Code 39 Full ASCII
Code 11	Code 32
Codabar	MSI / Plessey
Delta	Toshiba

Safety and Regulatory CE

Electrical: Complies to CE
Emissions: FCC Part 15 - Class A, VCCI-A, EN 55022-A, EN 55024
Laser classification: CDRH Class II; (CAUTION: Laser Radiation – do not stare into beam); IEC 60825 Class 2

System

Operating System
Microsoft® Windows® CE 3.0
CPU
MIPS core RISC CPU, 32 bits, 92 MHz, built in real-time clock
Memory
FlashROM: 32 MB for OS and applications
SDRAM: 32 MB for data
Buzzer
Piezoelectric buzzer, software controlled
LED Indicator
Dual color (green/red) good read indicator for scanner or MSR
Power Options
9VDC external adapter, 2 Amps
LiIon Pack 1550 mAhr
Power Consumption (*LiIon battery @ 4V*)
Standby: 85 mA
Suspend: 3.1 mA
Battery Charge
3 hours with external adapter, 2.5 hours with docking station
Input Devices
Touch screen, stylus, numeric keypad, full alphanumeric software keyboard, mag stripe reader (3 track) and bar code scanner
Docking Station
Interface: RS232
Charging: Quick charge; 2.5 hours
Power input: Regulated AC adapter; 9 VDC @ 2 Amps

Depth-of-Field Chart
(printing resolution, contrast and ambient light dependent)

Label Density	Standard 1D Laser Typical Range					
5 mil	2.0"	to	5.2"	/	5.1	to 13.2 cm
PDF / 6.5 mil						
7.5 mil	1.7"	to	8.0"	/	4.3	to 20.3 cm
10 mil	1.8"	to	10.0"	/	4.6	to 25.4 cm
100% UPC	1.9"	to	13.0"	/	4.8	to 33.0 cm
PDF / 15 mil						
20 mil	*	to	20.0"	/	*	to 50.8 cm
40 mil	*	to	25.0"	/	*	to 63.5 cm
55 mil	*	to	30.0"	/	*	to 76.2 cm

* Minimum distance determined by symbol length & scan length

Falcon® 4210 Docking Station