Falcon® 4220

Windows® CE . NET PDA

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, logistics, and field force automation 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, Cisco 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. This architecture provides all the power you need to run multiple applications, Voice over IP (VoIP), and even voice recognition in the future.

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.

A Stunning 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.

Communications, Communications, Communications

The Falcon 4220 integrates the 3 leading wireless technologies in one device. Featuring 802.11b WLAN, Bluetooth, and GPRS WWAN, the 4220 can communicate wherever your mobile worker requires.

Features:

- Intel® XScale™ PXA255 400MHz

- Windows CE .NET Operating System

- Choice of Laser or LRCCD Scanning Options

- Optional Handle for Scan Intensive Applications

- Open Architecture – SDIO and CF slot for RF, Memory, etc.

- 802.11b Cisco Compatible Wireless LAN

- Bluetooth for wireless printing and communications

- GPRS WWAN for field applications

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, transflective TFT
256,000 colors
Sunlight readeable (for outdoor use)

Keypad
17 plus 4-way navagation

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

Vibration: Exceeds MIL STD 810F

Optical

Light source:
Laser: 650nm VLD

Scan rate:
39 scans/second nominal

Depth of Field: see chart below

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

Ambient light immunity
Standard
Artificial light: 450 ft-candles /4,844 lux
Sunlight: 10,000 ft-candles /107,639 lux

Decoding Capability *(autodiscriminates between)*

1D Scan Engine
Code 39
Code 39 Extended
Interleaved 2 of 5
EAN 8, 13, 128
UPC-A
UPC-E
Code 128
Code 93
Codabar
Chinese Postage Code IATA
MSI/Plessey
Code 32
STD 2 of 5
Code 11
Matrix 2 of 5

Safety and Regulatory

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

Cradle

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

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

System

Operating System
Windows® CE .NET 4.2

Microprocessor
Intel® XScale™ PXA255

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

Audio
One mono speaker
2.5mm DIA stereo earphone jack with
microhone input (headset)

Power Options
1800mAh Li-Polymer removable/rechargable battery.
Optional 2700mAh hour battery
25mAh rechargable 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
Peripheral power - On/Off controllable via software

Radio Support
Cisco compatible 802.11b

System Support
VT100/220, HP700/92, IBM 3270 & 5250
via PowerNet Twin Client™
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

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