

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 & CF Slot
- 802.11b Wireless LAN (optional)

Accessories:

- Standard and High-Capacity Li-Ion Rechargeable Batteries
- 4 Slot Lilon Battery Charger
- Single-Slot Dock (with Ethernet Option)
- Four-Slot Ethernet Dock
- Triggered Handle
- GPRS Card and Cover
- Car Charger/Adapter
- Holster
- Extended Warranty
- Service Options

Mechanical

Dimensions

Length: 16.8 cm / 6.6"

Width: 7.8 cm / 3.1"

Height: 3.3 cm / 1.3"

Weight: With battery 360 g / 12.7 oz

Without battery 315 g / 11.1 oz

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

Keypad: 17 keys, plus 4-way navigation

Construction: Industrial, high-strength polycarbonate/ABS-blend plastic

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

Environmental

Temperature rating

Operating: -10° to 50° C / 14° to 122° F

Storage: -20° to 60° C / -4° to 140° F

Humidity: 5 to 95% NC

Shock: Multiple 1.2m / 4.0' drops to concrete

Water & Dust: IEC529 rating IP54

Decoding Capability (autodiscriminates)

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

Optical

Linear Imager

Light Source: 617nm Highly Visible LED

Scan Rate: Up to 200 scans/second

Depth of Field: see Depth of Field table below

Laser Scanner

Light Source: 650nm VLD

Scan Rate: 39 scans/second nominal

Depth of Field: see Depth of Field table below

DEPTH OF FIELD Typical Range Comparisons		
LABEL DENSITY	LINEAR IMAGER	LASER SCANNER
5 mil	11.2 - 16.8 cm / 4.4 - 6.6"	5.6 - 12.7 cm / 2.2 - 5.0"
7.5 mil	—	4.6 - 19.1 cm / 1.8 - 7.5"
10 mil	7.0 - 23.3 cm / 2.8 - 9.2"	5.1 - 24.6 cm / 2.0 - 9.7"
100% UPC	4.5 - 24.0 cm / 1.8 - 9.4"	7.0 - 23.3 cm / 2.8 - 9.2"
13 mil	—	5.1 - 30.5 cm / 2.0 - 12.0"
20 mil	4.4 - 30.0 cm / 1.7 - 11.8"	* - 38.1 cm / * - 15.0"
40 mil	12.0 - 40.0 cm / 4.7 - 15.7"	* - 55.9 cm / * - 22.0"
55 mil	—	* - 73.7 cm / * - 29.0"

* Minimum distance determined by symbol length and scan angle.
Printing resolution, contrast and ambient light dependent.

Data Sheet

System

Operating System: Windows® CE .NET 4.2

Microprocessor: Intel® XScale™ PXA255, 400 MHz

Memory: 64MB flash ROM, 64MB SDRAM

Communications Ports

Infrared: One IrDA 1.2 compliant port

Serial: RS232 via optional cable or cradle

USB: Supports USB v1.1 both host & client (dock & terminal)

I/O Slots

SD: (Secure Digital) card slot

CF: (Compact Flash) Type II slot (3.3V)

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

Power Options: 1800mAh Lilon removable/rechargeable battery, Optional 2700mAh 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; 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.

Docking Station

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

Safety and Regulatory

Battery: EN60950, UL60950-1, IATA/UN

Electrical: EN60950, UL60950, CSA 60950

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

Radio: FCC Part 15-C, R&TTE, IC, IDA

Radio Approved Countries: Contact PSC

Linear Imager Safety: Class 1 LED (Europe)

Laser classification: CDRH Class II;

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



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