

Falcon® 4400 Lite

Windows® CE Based Mobile Computer

Data Sheet



Features

- Microsoft® Windows® CE Operating System
- IEEE 802.11b/g Radio
- Linear Imager
- Keypad options include 26-key, 48-key, 52-key, and 5250 emulation versions
- Ergonomic Design
- Rugged design survives multiple 1.2 M / 4' drops to concrete
- Intel® XScale™ PXA255 400MHz
- Bright 64K Color TFT Active Matrix QVGA display
- Industry leading beeper volume
- Instant-On Trigger (Falcon 4420 Only)

Accessories

- Powered Vehicle Dock
- Single-Slot Dock and Four-Slot Dock
- Four-Slot Battery Charger
- Handle/Handstrap Conversion Kit
- Holsters/Softcases
- RS-232 and USB Cables
- Serial Charging Cable
- Serial Printer Adapter

Mechanical

Dimensions

- Length: 22.6 cm / 8.9"
- Width at display: 8.6 cm / 3.4"
- Width at grip: 6.4 cm / 2.5"
- Height at grip: 4.1 cm / 1.6"

Weight: 607 g / 21.4 oz (Will vary depending upon the configuration selected. Falcon 4400 model shown with radio, scanner, and battery pack)

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; 48-Key (handheld version only) Full Alphanumeric and 5250 support; 52-Key Full Alphanumeric and 5250 support

Construction: Industrial, polycarbonate/ABS-blend plastic

Environmental

Temperature Rating

- Operating: -10° to 50° C / 14° to 122° F
- Storage: -25° to 70° C / -13° to 158° F

Humidity: 5 to 95% NC

Shock: Multiple 1.2 M / 4.0' drops to concrete

Water & Dust: IEC529, Rating IP54DW

Decoding Capability (auto-discrimination)†

- Code 32, 39, 93
- Codabar
- Code 128
- Code 128 ext.
- EAN/UPC 2 digit ext.
- RSS-14/RSS Limited
- EAN/JAN 8, 13
- EAN 128
- UPC A, E
- Interleaved 2/5
- EAN/UPC 5 digit ext.
- Matrix 2/5
- MSI / Plessey
- Standard 2/5
- Code 39 Full ASCII
- EAN/UCC Composite

† Please refer to the appropriate Product Reference Guide (PRG) for specific symbology support for the imaging scan engine option.

Optical

- Light Source:** 645 nm
- Scan Rate:** 36 ± 5 scans/sec.
- Ambient Light Immunity**
- Artificial Light: 100,000 Lux
- Sunlight: 100,000 Lux

DEPTH OF FIELD TABLE Typical Range Comparisons	
LABEL DENSITY	LINEAR IMAGER
5 mil, UPCA	8-15 cm / 3.0-5.0"
10 mil, Code 39	4-18 cm / 1.5-7.0"
13 mil, Code 39	4-20 cm / 1.5-8.0"
20 mil, Code 39	4-29 cm / 1.5-11.5"
40 mil, Code 39	8-38 cm / 3.0-15.0"

Minimum distance determined by symbol length and scan angle. Dependent upon printing resolution, contrast, and ambient light.

System

Operating System: Windows® CE v5.0

Microprocessor: Intel® XScale™ PXA255, 400 MHz

Memory

- RAM: 64 MB
- Flash: 64 MB

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:

- Rechargeable Lithium Ion Battery Pack (1800 mAh)**
- Falcon Single and Four-Slot Dock** with power supply
- 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: 802.11b/g

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:

- 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, EN55022, VCCI, ICES-0003, CNS 13438, AS/NZS 3548

Radio: FCC Part 15.247, EN 300 328

Restriction of Hazardous Substances: Complies to EU RoHS



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The Falcon 4400 Series 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

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