

Falcon[®] 310 & 315

Portable Data Terminals



Features:

- Lightweight, ergonomic, compact design
- Open architecture
- DOS 6.22, 386 PC-compatible
- User-accessible PC Card slot
- Integrated laser options
- 8 x 21 graphics backlit LCD
- Wireless options:
 - Choice of 2.4 GHz spread spectrum radios
 - Long range mobility
 - High throughput network capacity
 - Advanced power management
 - Seamless roaming
 - Access points, antennas and cables
 - Network and Terminal emulation software

Entry Level Solutions for Portable Data Collection

The Falcon[®] 310/315 portable data terminals are an excellent choice for fast and accurate data collection applications. Durable, ergonomically designed and flexible, these units have many features you would expect to find in a more expensive product.

Featuring open architecture for ease of application development, the Falcon[®] 310/315 line runs DOS 6.22 on a powerful 32 bit, 386-based platform. Both units include a 8x21 backlit graphics display, a 41-key keypad, a RS-232 serial port, 2MB of RAM, 2MB of flash memory and a choice of standard-range or long-range integrated laser scanners. The Falcon[®] 310 has a user-accessible PC Card slot for extra memory, network connectivity or a modem card.

While the Falcon[®] 310 provides batch data collection solutions, the Falcon[®] 315 offers a choice of 2.4 GHz spread spectrum radio solutions, providing long range mobility, high throughput, advanced power management and seamless roaming among multiple cells. The Falcon 315 also offers extensive network connectivity protocols, allowing you to easily integrate this comprehensive RF data collection solution into your existing operation.

The Falcon[®] 310/315 line includes a set of powerful software tools that make it easy to create data collection and management applications to fit your needs. Uses include inventory control, shipping and receiving, factory floor data collection and warehousing, in a variety of industries including health care, retail, manufacturing and transportation. An exceptional value, the Falcon[®] 310/315 line brings cost-effective efficiency to your operation.

Choose From a Variety of Accessories for the Falcon[®] 310 & 315:

- Single or 4-slot Docks
- Softcase, Holster
- Falcon-to-Host Serial Cable
- NiCd Battery Pack
- RF Cards
- Single or 4-slot Chargers
- 56K Modem
- Dock-to-Host Serial Cable
- NiMH Battery Pack
- ATA Flash Cards (8, 16, and 32 MB versions)



Specifications

Falcon® 310 & 315

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 no laser: 8.25" / 21.0 cm
 Length w/laser: 9.35" / 23.8 cm
 Top width: 3.50" / 8.9 cm
 Grip width: 2.75" / 7.0 cm
 Height: 1.45" / 3.7 cm

Weight (w/battery pack)

No radio, no laser: 14.3 oz. / 404 g
 No radio, w/laser: 16.7 oz. / 472 g
 Radio, no laser: 16.2 oz. / 459 g
 Radio, w/laser: 18.6 oz. / 527 g

Display

Super-twist graphics LCD;
 Backlight w/programmable timeout;
 128x64 pixels;
 Up to 8 lines x 21 characters

Keypad

41 large alphanumeric keys;
 10 function keys;
 Direct Western-European character support;
 2 programmable side triggers

Construction

Industrial, high-strength polycarbonate/
 ABS-blend plastic
 Chemical and splash resistant

Environmental

Temperature rating

Operating: 14° to 122° F / -10° to 50° C
 Storage: -4° to 158° F / -20° to 70° C

Humidity: 5 to 95% NC

Shock: multiple 4.0' / 1.2m drops to concrete

Optical

Light source – Visible Laser Diodes (VLD)

Standard Range: 650nm
 Long Range: 650 nm

Scan angle – nominal

Standard Range: 42°
 Long Range: 23°

Scan rate: 35 scans/sec.

Depth of Field: Refer to chart on this page

Indicators: Good read; scan

Ambient light immunity

Artificial light: 450 ft-candles / 4,844 lux
 Sunlight: 8,000 ft-candles / 86,112 lux

Decoding Capability

(autodiscriminates between)

UPC A, E / EAN 8,13 / JAN 8,13

(P2 / P5, Code 128 EAN add-ons)

Code 128 Interleaved 2 of 5
 Code 39 Standard 2 of 5
 Code 39 Full ASCII Matrix 2 of 5
 Code 93 MSI / Plessey
 Code 11 Ames
 Codabar Label Codes 4/5
 ISBN conversion

Safety and Regulatory

Electrical: Complies to CE

Emissions: FCC Part 15 - Class A

Laser classification: CDRH Class II;



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



System

Operating System

ROM-DOS 6.22

Microprocessor

386 low power, 32-bit microprocessor; programmable speeds from 1 to 25 MHz; Real-time clock and calendar

Memory

Flash: 1MB Batch, 2MB RF (DOS, BIOS, applications and data storage); Expandable up to 32MB with PC Card [Falcon® 310 ONLY];
 RAM: 2MB (for system operation, virtual-disk data storage)

Serial Communications

RS232; RJ45 10-pin connector (COM1 serial port and docking); PC Card Type I/II socket (COM2 with modem card) [Falcon® 310 ONLY]; X modem; DOS UART Access support up to 115 kbps

PC Card

User-accessible PC Card Type I/II slot (supports ATA Flash Cards, modem cards and network cards) [Falcon® 310 ONLY]; (or certified radio cards) [Falcon® 315 ONLY]

Speaker

Software programmable for volume, duration and pitch

Power Options

3 AA alkaline batteries (supplied); Rechargeable NiCd battery pack; Rechargeable NiMH battery pack; Falcon dock; Falcon battery charger

Advanced Power Management (without PC Card)

Sleep/off mode with programmable timeout: -1 mA; Doze mode: -50 mA; Operating mode: >80 mA (option dependent, CPU speed and application); Rechargeable lithium backup battery; Low battery indicator; Programmable automatic shutdown

Software Tools

Windows-based configuration and installation programs; Falcon® Developer's Toolkit (includes Run-time libraries and technical reference manual); Applications can be written using any x86 supported compiler (C, Basic, etc.); PowerNet Twin Client terminal emulation for VT 100/220, 5250, 3270, HP700/92
 Windows-based Universal Program Generator (UPG); Falcon® Portable Application Library (PAL)

Input Devices

Handheld 5V lasers and CCDs; Wands; I.D. badge scanners

Antenna (Falcon® 315)

Integrated, dipole

Radio Support (Falcon® 315)

Proxim Range LAN2; Symbol Spectrum24® (2MB FH)

| Label Density | Standard Range (25% min. contrast; 5 mil min. resolution) | | Long Range (40% min. contrast; 10 mil min. resolution) | |
|---------------|--|----------------|---|-------------------|
| | Typical | | Typical | |
| 5 mil | 3.0" to 5.0" | 8.0 to 13.0 cm | | |
| 7.5 mil | 2.5" to 9.0" | 6.0 to 23.0 cm | | |
| 10 mil | 2.5" to 13.0" | 6.0 to 33.0 cm | 9.0" to 22.0" | 23.0 to 56.0 cm |
| 15 mil | 2.5" to 19.0" | 6.0 to 48.0 cm | 7.0" to 38.0" | 18.0 to 96.0 cm |
| 20 mil | *2.5" to 21.0" | 6.0 to 53.0 cm | 7.0" to 45.0" | 18.0 to 114.0 cm |
| 40 mil | *2.5" to 30.0" | 6.0 to 76.0 cm | 10.0" to 90.0" | 25.0 to 229.0 cm |
| 55 mil | *2.5" to 36.0" | 6.0 to 91.0 cm | 10.0" to 100.0" | 25.0 to 250.0 cm |
| 70 mil | | (reflective) | 60.0" to 180.0" | 152.0 to 457.0 cm |
| 100 mil | | (reflective) | 62.0" to 240.0" | 157.0 to 610.0 cm |

PSC Inc.

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



Falcon® Dock also available



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