

Falcon® PT40

Compact Bar Code Data Collection Terminal

Data Sheet



Features:

- Compact – size of a cell phone
- Integrated bar code laser
- Lightweight – 4.2 oz / 119 g
- 26 key numeric keypad (cell phone layout)
- Up to 2MB of memory
- Large capacity Lithium Ion main battery
- Rechargeable Lithium backup battery
- Supports task switching – up to 4 applications
- Powerful program generator (PPG) to develop applications

Accessories

- Single Slot Docking Station
- AC Adaptor
- Belt Clips/Softcases
- Serial/Charging Cable
- Rechargeable Li-Ion Battery



Docking Station

Mechanical

Dimensions

Length: 5.35" / 136 mm
 Width: 1.89" / 48 mm
 Height: .93" / 24 mm

Weight: 4.2 oz / 119 g including battery

Display:

Type: Backlit Graphics FSTN LCD
 Size: 96 x 48 pixels
 Text: 6 lines x 16 characters wide (small font); 4 lines x 12 characters wide (large font)
 Double Byte (Chinese): 3 lines x 8 characters wide

Keypads

26 keys with full alphanumeric capability (cell phone layout); Four function keys

Construction: ABS plastic, chemical resistant

Environmental

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: Multiple 4' / 1.2 m drops to concrete

Optical

Light Source: 650nm Visible Laser Diode (VLD)

Rate: 50 ± 6 scans/sec. bi-directional

Scan Angle: 46.5° typical

Ambient Light Immunity:

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

Depth of Field: Refer to Chart below

DEPTH OF FIELD Range Comparisons	
LABEL DENSITY	TYPICAL RANGE
5 mil	2.6" — 5.9" / 6.6 — 15.0 cm
7.5 mil	2.0" — 9.2" / 5.0 — 23.4 cm
10 mil	1.7" — 12.4" / 4.3 — 31.5 cm
13 mil	1.8" — 14.5" / 4.6 — 36.8 cm
20 mil	* — 20.3" / * — 51.6 cm
40 mil	* — 29.7" / * — 75.4 cm
55 mil	* — 34.4" / * — 87.4 cm

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

System

Hardware: 16-bit CMOS Microprocessor, Real-time Clock and Calendar

RAM: 256 KB to 2 MB

FLASH: 512 KB

Beeper: Software programmable speaker volume, duration, and pitch

Data Communications

PT40

Serial (requires serial cable)
 RS-232C; ASCII 7- or 8-bit; Selectable Parity; 300 to 38,400 baud programmable; Supports CTS/RTS and Xon/Xoff

Docking Station

Serial (cable included with dock)
 RS-232C; ASCII 7- or 8-bit; Selectable Parity; 300 to 38,400 baud programmable; Supports CTS/RTS and Xon/Xoff

Protocols: ACK/NAK; X Modem; Carriage return only

Power

Main Battery: 830 mAh rechargeable Li-Ion.

Typical Recharge Time: 3-4 hours

Backup Battery: Rechargeable lithium protects RAM and real time clock

AC Adaptor: (required for dock)

Input: 100-240V, 50-60Hz, 0.3A

Output: 9VDC, 1.3A

Software Support: Programs generated with PT Program Generator (PPG), Supports task switching between up to 4 applications

Decoding Capability (autodiscriminates between)

- UPC A, E / EAN 8, 13 / JAN 8, 13 (extensions)
- Code 128
- Code 39
- Code 39 Full ASCII
- Interleaved 2 of 5
- Codabar
- Code 93

International Character Sets

Supports Chinese Traditional (Big 5) and Chinese Simplified

Safety & Regulatory

Electrical: Complies to CE



Emissions: FCC Part 15 - Class A

Laser: CDRH Class II;

(CAUTION: Laser Radiation - do not stare into beam) IEC Laser Class 2

Specifications are subject to change without notice.

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