

Falcon® PT40

Compact Bar Code Data Collection Terminal

Data Sheet



Features

- Compact – size of a cell phone
- Integrated bar code laser
- Lightweight – 119 g / 4.2 oz
- 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: 136 mm / 5.35"
 Width: 48 mm / 1.89"
 Height: 24 mm / .93"

Weight: 119 g / 4.2 oz 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: 0° to 50° C / 32° to 122° F
 Storage: -20° to 70° C / -4° to 158° F

Humidity: 5 to 95% RH (non-condensing)

Shock: Multiple 1.2 m / 4' 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: 4,844 lux / 450 ft-candles
 Sunlight: 86,112 lux / 8,000 ft-candles

Depth of Field: Refer to Chart below

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

* 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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