Falcon® PT40

Compact Bar Code Data Collection Terminal

Compact Data Collection

The new Falcon PT40 is a very compact, sleek portable data terminal, sized to fit in your shirt pocket or on a belt clip like a cell phone. Complete with integrated bar code laser and multiple memory options, the PT40 is powerful enough to handle most any batch data collection task. The Falcon PT40 is designed primarily for retail and light industrial applications where low cost and an extremely small form factor are desired.

Small in Size, Big on Features

With its built-in laser, the PT40 is very snappy at scanning bar codes at distances from 2 inches/5cm up to 34 inches/87cm. The PT40 offers memory options from 256K up to 2MB for large look-up files or extensive data storage. The PT40 even supports the ability to instantly switch between up to 4 applications, providing added flexibility. Additionally, the PT40 features a long lasting Lithium Ion main battery, providing expected battery life of 24+ hours of near constant use between charges. Backed by a rechargeable Lithium backup battery, the PT40 will retain its memory for 3-5 days even when the main battery is completely discharged. A full 26 key keypad is laid out virtually identical to a typical cell phone, providing easy transition for the average user. The crisp display is even backlit for low-light situations. Tested to repeated 1.2 meter (4 foot) drops to concrete, the PT40 is designed to handle demanding data collection tasks.
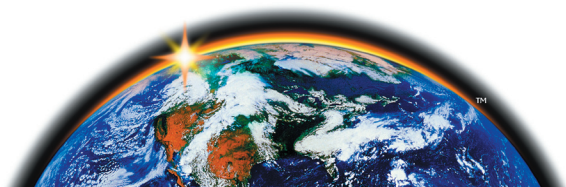
Powerful Programming Tool

The PT Program Generator (PPG) is a Windows based programming tool that features a graphical user interface to quickly and easily create your PT40 portable application. The latest version of PPG allows an existing PT 2000 or TopGun application to run without modification on the PT40 (with a simple re-compile).

International Capabilities

The PT40 was designed for data collection users worldwide. Initially supporting Chinese Simplified and Chinese Traditional (Big5) fonts, the PT40 will continue to be expanded to support other double byte languages in the near future.

Ease of Use

The PT40 comes with PAL, a simple, yet effective application pre-loaded on every terminal. PAL allows you to start using the PT40 right out of the box to scan bar codes and collect basic inventory data. Simply drop the PT40 in the docking station (or connect the direct connect cable) and send your collected data to your PC.

Features:

- Compact – size of a cell phone
- Integrated bar code laser
- Lightweight – 4.2 oz /119 grams
- 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

Specifications
Falcon®PT40

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: www.pscnet.com or contact your PSC representative for more information.

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
Keypad
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-ft. (1.2 m) drops to concrete

Decoding Capability

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

Safety & Regulatory

Electrical: Complies to CE
Emissions: FCC Part 15 - Class A
Laser: CDRH Class 2; IEC Laser Class 2
    (CAUTION: Laser Radiation - do not stare into beam)

CE

Optical

Light source: 650nm Visible Laser Diode (VLD)
Rate: 50 ± 6 scans/sec. bi-directional
Scan angle: 46.5° typical
Depth-of-field: Refer to chart below
Ambient light immunity:
    Artificial light: 450 ft-candles (4,844 lux)
    Sunlight: 8,000 ft-candles (86,112 lux)

Depth-of-Field Chart

printing resolution, contrast and ambient light dependent

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

(*Minimum distance determined by width of bar code and scan angle)

Accessories

Serial/Charging Cable
P/N 6001-2289

Belt Clip
P/N 1406-0965

AC Adaptor
P/N 4004-0754 (US)
P/N 4004-0755 (EU)

Rechargable Li-Ion Battery
P/N 4006-0319

Docking Station
P/N 6401-0002

Softcase
P/N 1402-0113

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: 600 mAh rechargable 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
Supports programs generated with PT Program Generator (PPG)
Supports task switching between up to 4 applications

International Character Sets
Supports Chinese Traditional (Big 5) and Chinese Simplified

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