The PHL 2700 handheld terminal has an integrated bar code laser scanner. Features are: 16 bit MPU, 8 MB memory, graphic LCD display, alpha-numeric keypad, 8 function keys and IrDA interface.

Handheld terminal

PHL 2700

Handheld terminal

Features

- Laser scan engine
- Rechargeable battery pack or Alkaline batteries
- 8 MB Memory available
- Graphic display
- IrDA interface

Benefits

- Enables touch- and variable distance reading
- Long life battery
- Enables continuous working even with large data storage
- Enables advanced applications
- Easy optical data transmission

Cabled **Wireless** Stationary OEM

OPTICON
always scanning for new ID's

Specifications

PHL 2700 Handheld terminal

Electrical specifications

Main battery pack	NI-MH rechargeable
Main dry cell battery	Alkaline penlite
Main battery optional	2 x AA-size
Main battery pack operating time	When making every 5 seonds 1 scan with 1 sec laserbeam on and 0.2 sec. green LED on and 0.2 sec. buzzer on, operating time is: approx. 40 hours
Main dry cell battery operating time	When making every 5 seonds 1 scan with 1 sec laserbeam on and 0.2 sec. green LED on and 0.2 sec. buzzer on, operating time is: approx. 78 hours
Main battery condition	Different operation conditions affect the operating time. Use of other penlite batteries affect the operating time.
Backup battery	Lithium (CR2032)
Backup battery operating time	If fully charged: 30 days backup time
Battery management	Low voltage indicated on the terminal display. When battery is low the terminal switches off automatically.
Charging method	Rechargeable Ni-MH pack in terminal via cradle

Optical specifications

Light source	650 nm visible laser diode
Scan rate	100 scans/sec
Decode rate	100 decodes/sec
Reading width	62 mm at 30 mm, 111 mm at 100 mm
Min. Resolution at PCS 0.9	0.15 mm (6mil)
Depth of field	0 - 140 mm (at PCS 0.9, resolution 0.25)

Identification

Supported barcode symbologies	Chinese Post 2of5 - Codabar incl. ABC and CX - Code 39 - Code 39 Full ASCII - Code 93 - Code 128 - EAN-8 incl. +2,+5 - EAN-13 incl. +2,+5 - IATA - Industrial 2of5 - Interleaved 2of5 - Italian Pharmaceutical - Matrix 2of5 - MSI/ Plessey - UK/Plessey - S-Code - Telepen - TriOptic - UPC-A incl. +2,+5 - UPC-E incl. +2,+5

Functionality

Memory ROM	32 kB
Memory FlashROM	512 kB (for O/S and program storage)
Memory fastRAM	2 kB
Memory RAM	8 MB battery backed up D-RAM (for data storage)
Microprocessor	16-bit
Real time clock	Quartz RTC, time and date programmable, leap year handling, (accuracy +/- 60 sec./month)
Display	128 x 64 Pixels graphic LCD with backlight
Character fonts	4/8 linesx16 characters, 5/10 linesx21 characters
Keyboard	27 keys total (26 keys user definable)
Keyboard function keys	8 Function keys
Keyboard mode	Alpha/Numeric mode
Programming	Functionality is provided by user application. The application may be downloaded from PC via cable, com port or IrDA.
Interface RS232	supported by cradle or optional supported by direct cable
Interface IrDA	supported on terminal
Transmission speed RS232	1200 - 115200 bps
Transmission speed IrDA	2400 - 115200 bps

Environmental specifications

Temperature in operation	-10 - +40 °C
Temperature in storage	-20 - +60 °C
Humidity in operation	20 - 80 % (non condensing)
Humidity in storage	20 - 90 % (non condensing)
Ambient fluorescent light rejection	3.000 lux max.
Ambient direct sun light rejection	50.000 lux max.
Shock drop test	1.5 m drop onto concrete surface
Shock vibration test	10 - 50 Hz with 1G for 30 min, cycle for X,Y,Z
Protection (dust and moisture, IEC529)	IP 42

Physical specifications

Dimensions	(l x w x d) 177 x 62 x 41 mm
Case material	ABS
Weight body	175 g (excl. battery)
Connector RS232	DB9 female

Regulatory

Laser safety class	IEC 825, Class I laserproduct
EMC	EN 55022, EN 55024

IRU 2700 Charging and communication cradle for PHL 2700

Electrical specifications

Voltage requirement	9 V DC
Battery charging time	8 hours charge

Functionality

Parity	Odd, Even, None
Interface RS232	supported
Interface RS485	supported
Transmission speed	baud rate: 1200 - 115200 bps
Transmission modes	half duplex RS232 / half duplex RS485

Environmental specifications

Temperature in operation	0 - +40 °C
Temperature in storage	-20 - +60 °C
Humidity in operation	30 - 85 % (non condensing)
Humidity in storage	30 - 90 % (non condensing)
Shock vibration test	10 - 50 Hz with 1G for 30 min, cycle for X,Y,Z

Physical specifications

Dimensions	(l x w x h): 150 x 90 x 81 mm
Case material	ABS
Weight body	250 g
Connector RS232	D Sub 9P F
Connector RS485	6 pins modular plug

Regulatory

EMC	EN 55022, EN 55024

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