The PHL 1300 is the smallest (132x55x33mm by dimensions) among the PHL terminal series. It has an integrated bar code laser scanner. Features are: 16 bit MPU, 8MB memory, graphic LCD display, multi functional keypad and IrDA interface.

Handheld terminal

PHL 1300

Pocket handheld terminal

Features

- Laser scan engine
- Pocket size and light weight
- 8 MB Memory available
- Rechargeable battery pack or Alkaline batteries
- IrDA interface
- Keypad with cellphone look and feel

Benefits

- Enables touch- and variable distance reading
- Easy to carry
- Enables continuous working
- Long life battery
- Easy optical data transmission
- Less instructions required

Cabled **Wireless** Stationary OEM

OPTICON
always scanning for new ID's

Specifications

PHL 1300 Pocket handheld terminal

Electrical specifications

Main battery pack	Lithium-Ion rechargeable (Opticon item)
Main dry cell battery	Alkaline AA-size batteries (optional user item)
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. 36 hours.
Main dry cell battery operating time	When making every 5 seconds 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	3 weeks backup time
Battery management	Low voltage indicated on the terminal display. When battery is low the terminal switches off automatically.
Charging method	Recharging Lithium-Ion pack in terminal via cradle

Optical specifications

Light source	650 nm visible laser diode
Scan method	vibrating mirror
Scan rate	100 scans/sec
Decode rate	100 decodes/sec
Reading width	min. 40 mm
Min. Resolution at PCS 0.9	0.15 mm (6mil)
Min. PCS value	0.45
Depth of field	70 - 380 mm (at PCS 0.9, resolution 1.0 mm)

Identification

Supported barcode symbologies	Chinese Post 2of5 - Codabar incl. ABC and CX - Code 39 - 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	2 x 256 kB (total 512 kB)
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	96 x 64 Pixels graphic LCD with backlight
Character fonts	5/10 lines x 16 characters
Indicators	Piezo buzzer / Good read LED (red/green)
Keyboard	19 keys total (18 keys user definable)
Keyboard mode	Alpha/Numeric mode
Programming	Functionality is provided by user application. The application may be downloaded from PC via cradle.
Interface RS232	supported by cradle
Interface IrDA	supported on terminal
Interface RS485	supported by cradle
Transmission speed	baudrate: 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

Physical specifications

Dimensions	(l x w x d) 132 x 55 x 33 mm
Case material	ABS
Weight body	ca. 170 g (incl. battery, depending on battery type)

Regulatory

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

IRU 1300 Charging and communication cradle for for PHL 1300

Electrical specifications

Voltage requirement	9 V DC
Battery charging time	when battery in terminal: 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 - +70 °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) 134 x 78 x 75 mm
Case material	ABS
Connector RS232	D Sub 9P F
Connector RS485	6 pins modular plug

Regulatory

EMC	EN 55022, EN 55024

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