

The PHL 4300 is a handheld touch screen terminal based on Linux™ operating system. 1D and 2D codes can be read with the integrated CMOS camera. Features are: 64 bit MPU, 32 MB RAM, 32 MB FlashROM, graphic LCD display, full alpha keypad, IrDA and PCMCIA interface. PCMCIA enables data exchange through Wireless LAN, GSM/GPRS, Fast Ethernet, or Compact Flash.

Handheld terminal

PHL 4300

Handheld touchscreen terminal with 2D scanner



Features

- Linux™ operating system
- Integrated PCMCIA interface
- Resistive LCD touch screen
- Keyboard with one character per key and 3 alphanumeric modes
- Integrated CMOS scanner

Benefits

- Availability of Linux™ allows easy programming
- Several wireless data exchange options and mobile network connectivity
- Interactive navigation and operation
- Quick input of data and easy case changes (upper case, lower case, and numeric mode)
- Possibility to read both 1D and 2D codes.

Cabled

Wireless

Stationary

OEM

OPTICON
always scanning for new ID's

Specifications

PHL 4300 Handheld touchscreen terminal with 2D scanner

Electrical specifications

Backup battery Lithium (CR2032)

Optical specifications

Light source 4 red LEDs 630 nm
 Scan method CMOS area sensor (monochrome)
 Photo sensor 640(H)x480(V) pixels, effective 660(H)x492(V)
 Target indicator 2 Red LED pointers
 Reading pitch angle $\pm 35^\circ$
 Reading skew angle $+10^\circ - +45^\circ -10^\circ - -45^\circ$
 Reading rotation angle 360°
 Curvature $R > 15$ (at EAN8), $R > 20$ (at EAN13)
 Reading range HxV: at 50mm = 33x24mm,
 at 100mm = 60x44mm,
 at 200mm = 115x84mm,
 at 350mm = 196x144mm
 Min. Resolution at PCS 0.9 1D: 0.127 mm (5 mil),
 2D: 0.169 mm - 0.889 mm,
 depending on symbologie
 Min. PCS value 0.45
 Depth of field 20 - 290 mm, depending on reading distance,
 bar code label resolution and barcode
 symbologie

Identification

Supported barcode symbologies Codabar - Code 39 - Code 39 Full ASCII - Code
 93 - Code 128 - EAN-8 incl. +2,+5 - EAN-13
 incl. +2,+5 - EAN-128 - IATA - Industrial 2of5 -
 Interleaved 2of5 - MSI/Plessey - UPC-A incl.
 +2,+5 - UPC-E incl. +2,+5
 Supported 2D code symbologies PDF417 - QR code - Data Matrix (ECC200) -
 Maxi Code (mode 2-5)

Functionality

Memory FlashROM 32 MB
 Memory RAM 32 MB SDRAM
 Microprocessor 64-bit, 131 MHz, NEC VR4121
 Real time clock Quartz RTC, time and date programmable, leap
 year handling, (accuracy +/- 60 sec./month)
 Display 160x240 Pixels graphic LCD with backlight
 Keyboard 34 keys total: Matrix keypad, Power key, Modus
 key, Scan key
 Keyboard mode Alpha Upper case / Alpha Lower case / Numeric
 and Punctuation
 Input devices Touch panel, Stylus, Alpha-Numeric keypad,
 Scanner 1D/2D codes
 Programming Functionality is provided by user application.
 Interface RS232 supported by cradle
 Interface IrDA supported on terminal
 Interface PCMCIA PCMCIA 16-bit | Wireless LAN: Cisco Aironet
 350 series (2.4 GHz Spread Spectrum / Wi-Fi -
 IEEE 802.11b) | GSM/GPRS: Option
 Globetrotter (Tri-band 900/1800/1900) | Fast
 Ethernet: Sitecom 10/100 Mbps | Compact
 Flash: SanDisk/Princeton with adapter
 Transmission speed IrDA baudrate: 2400 - 115200 bps

Environmental specifications

Temperature in operation $-10^\circ - +40^\circ \text{C}$
 Temperature in storage $-20^\circ - +60^\circ \text{C}$
 Humidity in operation 10 - 90 % (non condensing)
 Humidity in storage 5 - 95 % (non condensing)
 Shock drop test 1.5 m drop onto concrete surface
 Protection (dust and moisture, IEC529) IP 54

Physical specifications

Dimensions (l x w x d) 186 x 66 x 55 mm

Regulatory

EMC EN 55022, EN 55024

IRU 4100 Charging and communication cradle for PHL 4X00 series

Electrical specifications

Voltage requirement 6 V DC
 Battery charging time automatically determined

Functionality

Parity Odd, Even, None
 Interface RS232 supported
 Transmission speed baud rate: 2400 - 115200 bps
 Transmission modes half duplex RS232

Environmental specifications

Shock vibration test 10 - 50 Hz with 1G for 30 min, cycle for
 X,Y,Z.

Physical specifications

Dimensions (l x w x h) 138 x 92 x 65 mm
 Case material ABS
 Weight body 200 g
 Connector RS232 D Sub 9P F

Regulatory

EMC EN 55022, EN 55024