

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 $+10 - +45, -10 - -45^\circ$
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 $-10 - +40^\circ\text{C}$
Temperature in storage $-20 - +60^\circ\text{C}$
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

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 $0 - +40^\circ\text{C}$
Temperature in storage $-20 - +60^\circ\text{C}$
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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