




Description

 **NOTIFICATION DISCONTINUED** | Alternatives can be found under the 'Related products' tab, or contact us for assistance.

The information below is for reference purposes only.



Model : **Opticon PHL-8214 (11867)**

Groep : *Rugged terminal - PHL8000 series - With Full keypad, 1D scan engine, Windows CE 5.0, Bluetooth, WiFi, IrDA, USB, RS232, GSM, GPRS, EDGE, IP65*

Datasheet: [Opticon PHL8214](#)

Opticon PHL8214 is a ruggedized terminal, combining barcode laser scanning with manual data entry using the full keypad. For direct communication, the Opticon PHL8214 is equipped with GPRS and EDGE. The 3.5" LCD display allows easy readability and the rubber grip enables comfortable scanning.

Product Features

The Opticon PHL8214 is part of the Opticon PHL8000 series consisting of ruggedized PDA-like terminals, equipped with Windows CE 5.0. All terminals in this range have several wireless communication options. WLAN and Bluetooth are standard available on the Opticon PHL8000 series. Two models are also equipped with GPRS and EDGE. Additional, the serial connector provides the option to use a communication cable.

The Opticon PHL8214 is sealed up to IP 65 standards and withstand drops of up to 1.5 meter onto concrete. The physical design of these terminals offers a convenient balance for user operation with a graphic LCD display and keypad with backlight, providing excellent viewing in dim or bright lighting. The series supports two different keypad variations (alphanumeric and full keypad), with non-erasable keys and two different scan engines (barcode laser scanner and 2D CMOS imager).

With the 2200mAh battery (or high capacity 4000 mAh battery) and the high performance processor, the Opticon PHL8214 can run heavy applications. The wide range of accessories and optional functionalities enable optimal use of the product.

Specifications

- Opticon PHL-8214 Ruggedized PDA (**Project item**)
- Article number: 11867 Opticon PHL-8214 1D WLAN/BT/GSM/EDGE

Operation

- CPU: Intel® PXA270 32-bits RISC 520Mhz
- O/S: Windows CE 5.0
- Software: Wordpad, Internet Explorer, Inbox, Active Sync, Messenger, Opticon scanner application, Accessories, Upgradeable via user accessible SD
- RTC: Supports year, month, day, hour, minute, second (leap year supported)

Memory

- FlashROM: 128 MB
- RAM: 128 MB SDRAM
- Expansion: User accessible SD + HC

Display

- Type: Graphic Transflective TFT with touch panel, 256K color with adjustable backlight
- Size: 3.5", 240 x 320 pixels
- Mode: Portrait

Operating indicators

- Visual: 1 LED (red/green scanning indication)
- Non-visual: Buzzer

Operating keys

- Entry options: 29 back-lit keys total
- 12 alpha(numeric) keys
- 2 navigation keys
- 4 function keys
- 1 custom key
- control keys
- 1 power key
- 3 scan keys

Communication

- RS232: Baudrate 150 bps - 115.2 kbps, serial cable connector
- USB: Ver. 1.1, full speed, serial cable connector client, optional host
- IrDA: Baudrate automatically determined, including IrDA protocol stack
- Bluetooth: Ver. 1.2, SPP, output power class 2, range 5-10 m
- W-LAN: 802.11b/g, CCK, TKIP, WEP, WPA, WPA2, EAP, LEAP, PEAP, AES, PSK (pre-shared, static, dynamic), Cisco CCX compatible Ver. 4
- Telecom: GSM/GPRS/EDGE, quad-band 850/900/1800/1900, GSM Class 12, EDGE Class 10
- Audio: Speaker/microphone (mono), headset connector (stereo)

Power

- Rechargeable battery: Lithium-Ion, 3.7 V 2200 mAh
- High-capacity battery: Optional 3.7 V 4000 mAh
- Backup battery: 1 rechargeable backup Lithium-Ion Polymer battery
- Charging method: Enclosed power supply, separate cradle IRU8000, separate car charging adapter
- Battery charging time: Ca. 3 or 5.5 hours when charging through power supply, Ca. 4 or 7 hours when charging by cradle standard battery (resp. standard or High-capacity battery)

Barcode scanner Optics

- Light source: 650 nm visible laser diode
- Scan method: Vibrating mirror
- Scan rate: 100 scans/sec
- Reading pitch angle: -35 to 0°, 0 to +35°
- Reading skew angle: -50 to -8°, +8 to +50°
- Reading tilt angle: -20 to 0°, 0 to +20°
- Curvature: R>15 (EAN8), R>20 (EAN13)
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9, Code 39
- 70 - 650 mm / 2.76 - 25.59 in (1.00 mm / 39 mil)
- 50 - 420 mm / 1.97 - 16.54 in (0.5 mm / 20 mil)
- 50 - 260 mm / 1.97 - 10.24 in (0.25 mm / 10 mil)
- 50 - 150 mm / 1.97 - 5.91 in (0.15 mm / 6 mil)
- 60 - 120 mm / 2.36 - 4.72 in (0.127 mm / 5 mil)

Supported Symbolologies

- Supported 1D barcode Symbolologies: JAN/UPC/EAN incl. add on, Codabar/ NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/ Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey Postal code: Chinese Post, Korean Postal Authority code
- Supported 2D barcode Symbolologies: Composite Codes, MicroPDF417, PDF417

Durability

- Temperature in operation: -10 to 50 °C / 14 to 122 °F
- Temperature in storage: -20 to 60 °C / -4 to 140 °F
- Humidity in operation: 5 - 95 % (non-condensing)
- Drop test: 1.5 m / 5 ft drop onto concrete surface
- Protection rate: IP 65

Physical

- Dimensions (w x h x d): (excl. antenna) 82 x 155 x 31/33 mm / 3.23 x 6.10 x 1.22/1.30 in
- Weight body: Ca. 350 g / 12.3 oz (incl. battery)
- Case: Black

Regulatory & Safety

- Product compliance: CE incl. LVD, FCC, cUL, RoHS, TUV, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

Warranty

- 2 year Manufacturer warranty / Fabrieks garantie

Downloads

- Download : Opticon PHL8000 Quick Start Guide
- Download : Opticon PHL8000 User Manual
- Download : Firmware for PHL8000
- Download : SDK for PHL8000
- To build applications, first install the appropriate Microsoft development tool (compiler) to be obtained from a local vendor.

Enclosed items

- USB client cable for terminal **Article number : 11463**
- Power supply for PHL-8xxx 5,0V/2,6A **Article number : 11987**
- EU Line power cord for Power supply **Article number : 11461**
- Rechargeable Battery pack for PHL-8xxx (3.7V/2200mAh) Standard **Article number : 11954**
- Standard Battery cover **Article number : 11956**
- Handstrap for PHL-8xxx **Article number : 11986**
- Stylus pen for PHL-8xxx **Article number : 11985**
- Stylus spring cord for PHL-8xxx **Article number : 12252**
- Earphone/Microphone set **Article number : 11462**

Accessories

Sold separately.

- Single dock IRU-8000 **Article number : 11942**
- Power supply 5,0V/2,6A for IRU-8000 Single dock cradle **Article number : 11987**
- EU Line power cord for Power supply **Article number : 11461**
- Car charging adapter for PHL-8xxx **Article number : 12588**
- RS232 communication cable for IRU-8000 to PC **Article number : 90201**
- IRU7004 4 slot battery charger PHL7xxx/PHL8xxx incl Power supply **Article number : 11471**
- RS232 serial cable for PHL-8xxx **Article number : 11475**
- USB host cable for PHL-8xxx **Article number : 11476**
- Rechargeable Battery for PHL-8xxx (3.7V/4000mAh) High-capacity **Article number : 11470**
- High-cap Battery cover **Article number : 11955**
- Nylon case PHL-8xxx Fixed Clip **Article number : 12276**