

# OPTICON

# Windows CE



## GSM/GPRS

### Serial connector Serial cradle

# PHL7254

## 2D CMOS imager



### + Related products

#### PHL7214

- Windows CE
- Barcode laser scanner
- Bluetooth, W-LAN (WiFi), GSM/GPRS, serial connector
- IP 54, Full keypad

#### PX25

- Data Collector
- 2D CMOS imager
- IrDA, Bluetooth
- Equipped with powerjack

#### H19B

- Windows Mobile
- 2D CMOS imager
- Bluetooth, W-LAN (WiFi), GSM/GPRS/EDGE, miniSD I/O
- GPS, IP 54

## Operation

- CPU: Intel® PXA255 32-bit RISC 400Mhz
- O/S: Windows CE 5.0
- Software: Wordpad, Internet Explorer, Inbox, Active Sync, Messenger, Opticon scanner application, Accessories, Upgradeable via integrated SD
- RTC: Supports year, month, day, hour, minute, second (leap year supported)

## Memory

- FlashROM: 64 MB
- RAM: 128 MB SDRAM
- Expansion: Integrated SD

## 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: 2 LEDs (triple-color charging indication & dual-color scanning indication)
- Non-visual: Buzzer

## Operating keys

- Entry options: 60 backlit keys total, 26 alpha-keys and 10 numeric keys, 4-way navigation keys, 4 function keys, 1 custom key, control keys, 1 power key, 2 hot keys, 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
- Bluetooth: Ver. 1.2, SPP, DUN, OPP, HID (only keyboard support), output power class 2, range 5-10 m
- W-LAN: 802.11b, WEP, WPA, PSK
- Telecom: GSM/GPRS tri-band 900/1800/1900, Class C
- Audio: Speaker/microphone (mono), headset connector (stereo), GSM headset connector (mono)

## Power

- Rechargeable battery: Lithium-Ion 3.7V 3000mAh
- High-capacity battery: Optional 3.7V 4000mAh
- Backup battery: 1 integrated rechargeable backup battery
- Charging method: Enclosed power supply, separate cradle IRU7000, separate car charging adapter
- Battery charging time: Ca. 4 or 5.5 hours when charging through power supply, ca. 5 or 7 hours when charging by cradle Standard battery (resp. Standard or High-capacity battery)

## 2D Imager Optics

- Light source: Illumination 4 red LEDs 630 nm, aiming 2 green LEDs
- Scan method: CMOS area sensor (gray-scale), 1024 (V) x 1280 (H) Pixels
- Scan rate: Up to 30 fps
- Trigger mode: Manual, multiple read
- Reading pitch angle: -50 to 0°, 0 to +50°
- Reading skew angle: -60 to 0°, 0 to +60°
- Reading tilt angle: 360°
- Curvature: R>15 (EAN8), R>20 (EAN13)
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9, PDF417  
50 - 215 mm / 1.97 - 8.46 in (0.339 mm / 13 mil),  
95 - 135 mm / 3.74 - 5.31 in (0.127 mm / 6 mil)

## Supported Symbologies

- Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, Matrix 2of5, MSI/Plessey, S-Code, Telepen, UK/Plessey
- Postal code: Chinese Post, Korean Postal Authority code
- 2D code: Aztec Code, Aztec Runes, Composite codes, Data Matrix, (ECC200/ECO-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

## Durability

- Temperature in operation: -10 to 50 °C / 14 to 122 °F
- Temperature in storage: -20 to 70 °C / -4 to 158 °F
- Humidity in operation: 5 - 95% (non-condensing)
- Ambient light immunity: White 4,000 lx max, Fluorescent 4,000 lx max, Direct sun 80,000 lx max
- Drop test: 1.5 m / 5 ft drop onto concrete surface
- Protection rate: IP 54

## Physical

- Dimensions (w x h x d):  
91.3/78 x 219.5 x 64.6/42.2 mm  
3.59/3.07 x 8.64 x 2.54/1.66 in
- Weight body: Ca. 665 g / 1 lb 7 oz (incl. battery)
- Case: Black

## Regulatory & Safety

- Product compliance: CE, FCC, cUL, RoHS

## Enclosed items

- Power supply 100-240V/0.6A, 50/60 Hz, 5V/2.6A + Power cord
- Standard battery 3.7V 3000mAh
- USB client cable
- Hand strap
- Stylus
- Ear microphone (stereo)

## Sold separately

- IRU7000 Cradle: Serial communication, charging
- IRU7004 spare battery charger
- High-capacity battery Lithium-Ion 3.7V 4000mAh
- GSM ear microphone (mono)
- RS232 serial cable
- USB host cable
- Car charging adapter
- Holster
- Pistol grip

Copyright Opticon. All rights reserved. This information is subject to change without prior notice. For availability, contact your local representative.

- **The Netherlands:** Hoofddorp  
- **France:** Issy Les Moulineaux  
- **Germany:** Dietzenbach  
- **Italy:** Castel Maggiore (BO)  
- **Spain:** Valencia  
- **Sweden:** Järfälla  
- **United Kingdom:** Luton, Bedfordshire  
- **U.S.A.:** Renton, WA  
- **Japan:** Warabi City

- **Taiwan:** Taipei  
- **P.R.China:** Shanghai  
- **Australia:** Kariong  
- **Brazil:** São Paulo

Opticon Sensors Europe B.V  
European headquarters  
Opaallaan 35  
2132 XV Hoofddorp  
The Netherlands  
phone: +31 (0)23-5692700  
fax: +31 (0)23-5638266  
email: sales@opticon.com  
internet: www.opticon.com

**OPTICON**  
WWW.OPTICON.COM