OPTICON

PHL8112
Barcode laser scanner

Microsoft
Windows CE .net

IrDA

Bluetooth

WiFi

Serial connector
Serial cradle

+ Related products

PHL8212
· Windows CE
· Barcode laser scanner
· Bluetooth, W-LAN (WiFi), serial connector
· IP 65, Full keypad

PHL7112
· Windows CE
· Barcode laser scanner
· Bluetooth, W-LAN (WiFi), GSM/GPRS, serial connector
· IP 54

H19A
· Windows Mobile
· Barcode laser scanner
· Bluetooth, W-LAN (WiFi), GSM/GPRS/ EDGE, miniSD I/O
· GPS, IP 54

➕ Basic Product Specifications

Operation
- CPU: Intel® PXA270 32-bit 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 backlit 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, DUN, OPP, HID (only keyboard support), 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
- Audio: Speaker/microphone (mono), headset connector (stereo)

Power
- Rechargeable battery: Lithium-Ion 3.7V 2200mAh
- High-capacity battery: Optional 3.7V 4000mAh
- 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 Symbologies
- Barcode (1D): 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
- 2D code: Composite Codes, MicroPDF417, PDF417

Durability
- Temperature in operation: -10 to 50 ºC / 14 to 122 ºF
- Temperature in storage: -20 to 60 ºC / -4 to 140 ºF
- 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):
  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

Enclosed items
- Power supply 100-240V/0.6A, 50/60 Hz, 5V/2.6A + Power cord
- Standard battery 3.7V 2200mAh
- USB client cable
- Hand strap
- Stylus + Spring cord
- Ear microphone (stereo)

Sold separately
- IRU8000 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
- Nylon case fixed clip