

# OPH1005

## Handheld Mobile Computer

Serial / USB Cradle

Modem Cradle

GSM Cradle

IrDA



### + Features & Benefits

- Small, rugged mobile terminal featuring an elegant design
- Ideal solution for inventory control and mobile sales automation
- Vibrant, TFT LCD QVGA color display with adjustable backlight
- Integrated laser scanner - 100 scans/second
- Enhanced, easy to use 23-key keyboard
- Features 128 MB FlashROM, 4 MB RAM and 4 MB SRAM
- Withstands 5' drop to concrete
- Features IP54 rating – comprehensive sealing against dust and moisture
- Compact size and weight – 2.17"W x 5.35"L x 0.91"D and 4.9 ounces
- Stores data onboard for later transfer via IrDA through a charging/communication cradle (sold separately)
- Three cradle choices available: CRD1001 (RS232, USB), CRD1002 (Modem) and CRD1003 (GSM)
- Programmable - free Opticon SDK enables solution providers to create customized scanning solutions
- Backed by a two year warranty

## Operation

- **CPU:** RX62N 32-bit MCU
- **O/S:** Proprietary
- **Software:** Programmable in C-language, software development kit with compiler freely downloadable
- **RTC:** Supports year, month, day, hour, minute, second (leap year supported)

## Memory

- **NAND Flash:** 128 MB FlashROM: 4 MB RAM: 4 MB SRAM

## Display

- **Type:** TFT LCD QVGA color display with backlight
- **Size:** 2", 320 x 240 pixels
- **Font size:** 6x6 / 6x12 / 8x8 / 8x16 / 12x24 dots

## Operating Indicators

- **Visual:** Dual-color LED (red/green)
- **Non-visual:** Buzzer

## Operating Keys

- **Entry options:** 23 keys total, 12 key (alpha)numeric keypad, 2 navigation keys, 4 function keys, 3 control keys, 1 power key, 2 hot keys, 1 scan key

## Communication

- **IrDA:** Ver. 1.2, baudrate 1200 bps - 115.2 kbps

## Power

- **Rechargeable battery:** Lithium-Ion 3.7V 1100mAh
- **Operating time:** Ca. 40 hours (backlight off, 1 scan / 10 sec)
- **Data retention time:** 24 hours
- **Charging method:** Separate cradle CRD1001, CRD1002, CRD1003

## 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 - 450 mm / 2.76 - 17.72 in (1.0 mm / 39 mil), 50 - 320 mm / 1.97 - 12.60 in (0.5 mm / 20 mil), 50 - 200 mm / 1.97 - 7.87 in (0.25 mm / 10 mil), 55 - 120 mm / 2.17 - 4.72 in (0.15 mm / 6 mil)

## Supported Symbolologies

- **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
- **Barcode (Postal code):** Chinese Post, Korean Postal Authority code
- **Barcode (2D):** 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:** 20 - 85% (noncondensing)
- **Humidity in storage:** 20 - 85% (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):** 55 x 136 x 23 mm / 2.17 x 5.35 x 0.91 in
- **Weight body:** Ca. 140 g / 4.9 oz (incl. Lithium-Ion battery)
- **Case:** ABS, Black

## Regulatory & Safety

- **Product compliance:** CE, FCC, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

## Enclosed Items

- Hand strap

## Sold Separately

- **Rechargeable battery:** Lithium-Ion 3.7V 1100mAh
- **CRD1001 Cradle:** USB and RS232 communication, charging
- **CRD1002 Cradle:** Modem communication, charging
- **CRD1003 Cradle:** GSM/GPRS communication, charging

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