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

✚ Product Specifications

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 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
- **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

- **The Netherlands**: Hoofddorp
- **France**: Issy Les Moulineaux
- **Germany**: Dietzenbach
- **Italy**: Villanova di Castenaso (BO)
- **Sweden**: Järfälla
- **United Kingdom**: Luton, Bedfordshire
- **U.S.A.**: Renton, WA
- **Brazil**: São Paulo
- **Japan**: Warabi City
- **Taiwan**: Taipei
- **P.R.China**: Shanghai

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