

OPH-3001

Handheld Mobile Computer

Infrared (IrDA)

USB



+ Features and Benefits

- Durable, reliable and affordable mobile terminal
- Ideal solution for asset management, inventory control and mobile sales automation
- Vibrant, TFT LCD QVGA color display with adjustable backlight
- Intuitive 22-key keyboard
- Integrated laser scanner: 100 scans/second
- Features 4 MB FlashROM, 2 MB SRAM and 128 MB NAND Flash
- Communication and battery charging through mini USB 2.0, VCP
- Withstands 5 ft drop to concrete
- Features IP54 rating – comprehensive sealing against dust and moisture
- Compact size and weight: 2.29 x 7.12 x 0.94 in (LxWxH) and 5.5 oz
- Programmable: free Opticon SDK enables solution providers to create customized scanning solutions
- Backed by a two year warranty

Operation

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

Memory

- **FlashROM:** 4 MB
- **NAND Flash:** 128 MB
- **SRAM:** 2 MB

Display

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

Operating Indicators

- **Visual:** 1 LED (red/green)
- **Audible:** Buzzer

Operating Keys

- **Entry Options:** 22 keys total, 12 key (alpha) numeric keypad, 4 navigation keys, 3 function keys, 1 control key, 1 power key, 1 scan key

Communication

- **USB:** Mini USB, Ver. 2.0, VCP
- **IrDA:** Version 1.2, baudrate 1200 bps - 115.2 kbps

Power

- **Rechargeable Battery:** Lithium-Ion 3.7V 1100mAh
- **Backup Battery:** Lithium (CR2032)
- **Operating Time:** Ca. 40 hours (backlight off, 1 scan/10 sec)
- **Charging Method:** Enclosed USB cable
- **Data Retention Time:** 24 hours

Barcode Scanner Optics

- **Light Source:** 650 nm visible laser diode
- **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>0.59 (15 mm) (EAN8), R>0.79 in (20 mm) (EAN13)
- **Minimum Resolution at PCS 0.9:** 6 mil (0.15 mm)
- **Depth of Field (PCS 0.9):**
 - at 39 mil (1.0 mm): 2.76 - 25.59 in (70 - 650 mm)
 - at 20 mil (0.5 mm): 1.93 - 16.54 in (49 - 420 mm)
 - at 10 mil (0.25 mm): 1.93 - 10.24 in (49 - 260 mm)
 - at 6 mil (0.15 mm): 1.93 - 5.91 in (49 - 150 mm)
 - at 5 mil (0.127 mm): 2.36 - 4.72 in (60 - 120 mm)

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-UK/Plessey, S-Code, Telepen, Tri-Optic
- **Barcode (2D):** GS1 Composite codes
- **Barcode (Postal Codes):** Chinese Post, Korean Postal Authority code

Durability

- **Temperature:**
 - Operation: 14 to 122 °F (-10 to 50 °C)
 - Storage: -4 to 140 °F (-20 to 60 °C)
 - Charging: 32 to 104 °F (0 to 40 °C)
- **Humidity**
 - Operation: 20 - 85% (non-condensing)
 - Storage: 20 - 85% (non-condensing)
- **Drop Test:** 5 ft (1.5 m) onto concrete surface
- **Protection Rate:** IP 54

Physical

- **Dimensions (WxHxD):** 2.29 x 7.12 x 0.94 in (58.2 x 180.8 x 23.8 mm)
- **Weight (Body):** Ca. 5.5 oz (156 g) (incl. battery)

Regulatory and Safety

- **Product Compliance:** CE, FCC, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II, EN55022, EN55024

Enclosed Items

- Battery, USB cable, hand strap