

# H13

Barcode laser scanner

IrDA

Serial cradle



### + Related products



#### OPH1004

- Batch Terminal
- Barcode laser scanner
- IrDA
- IP 54



#### OPL9728

- Data Collector
- Barcode laser scanner
- IrDA



#### H15

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

## Operation

- CPU: ARM7 32-bit
- O/S: Proprietary
- Software: Programmable in C-language. Software development kit with WinARM compiler free downloadable
- RTC: Supports year, month, day, hour, minute, second (leap year supported)

## Memory

- FlashROM: 4 MB
- RAM: 16 MB

## Display

- Type: FSTN semi-transmissive LCD
- Size: 128 x 128 pixels
- Font size: 6x6 / 6x12 / 8x8 / 8x16 / 12x24 dots

## Operating indicators

- Visual: Dual-color scanning indication (red/green)
- Non-visual: Buzzer

## Operating keys

- Entry options: 22 keys total, 12 key (alpha)numeric keypad, 3 function keys, 3 control keys, 1 power key, 2 hot keys, 1 scan key

## Communication

- IrDA: Ver. 1.2, baudrate 9600 bps - 115.2 kbps, FiR ready

## Power

- Rechargeable battery: Lithium-Ion, 3.7 V 1100 mAh
- Dry cell battery: 2 x AA-size
- Backup battery: Rechargeable manganese silicon lithium battery (18 mAh)
- Operating time: Rechargeable battery Ca. 90 hours (1 scan / 5 sec), Dry cell battery Ca. 150 hours (1 scan / 5 sec)
- Data retention time: More than 7 days
- Charging method: Separate cradle CRD13 series
- Battery charging time: Ca. 3 hours

## 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 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.15 mm / 6 mil
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9, Code 39  
55 - 520 mm / 2.17 - 20.47 in (1.0 mm / 39 mil),  
35 - 350 mm / 1.38 - 13.78 in (0.5 mm / 20 mil),  
35 - 200 mm / 1.38 - 7.87 in (0.25 mm / 10 mil),  
35 - 100 mm / 1.38 - 3.94 in (0.15 mm / 6 mil),  
45 - 80 mm / 1.77 - 3.15 in (0.127 mm / 5 mil)

## Supported Symbolologies

- Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, 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 °C / 14 to 122 °F
- Temperature in storage: -20 to 60 °C / -4 to 140 °F
- Humidity in operation: 20 - 85 % (non-condensing)
- Humidity in storage: 20 - 85 % (non-condensing)
- Ambient light immunity: Fluorescent 4,000 lx max, Direct sun 80,000 lx max, Incandescent 4,000 lx max
- Drop test: 1.5 m / 5 ft drop onto concrete surface
- Vibration test: 10 - 100 Hz with 2G for 1 hour
- Protection rate: IP 54

## Physical

- Dimensions (w x h x d):  
53 x 159 x 31 mm / 2.09 x 6.26 x 1.22 in
- Weight body: Ca. 180 g / 6.4 oz (incl. AA battery)
- Case: ABS, Black

## Regulatory & Safety

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

## Enclosed items

- Hand strap

## Sold separately

- CRD13 serial cradle
- CRD13 GSM cradle
- Rechargeable battery
- Holder for AA-size batteries
- AA-size batteries

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