

# OPL-9815

## Laser scanner

The OPL-9815 mobile terminal features Bluetooth®, GPS, a real-time clock and 18-key operation for data-capture applications that require location and time stamps, as well as data entry. It comes with a free Opticon SDK to create customized scanning solutions.



## Highlights

- Ideal solution for asset management, inventory control and mobile sales automation
- Features 100 scans/second high speed laser barcode scanner
- Wireless Bluetooth (HID or SPP) transmission of data to a host
- Data can also be transferred via USB, RS232 and GSM through the various communication/charging cradles that are sold separately
- Integrated GPS and real time clock for mobile applications that require location coordinates and time stamps
- Memory: 512KB of flash ROM and 1MB of RAM
- 18-key keypad and monochrome 112x64 pixel LCD screen with backlight
- Compact size and weight: 44 x 140 x 22 mm (W x H x D), 115 grams
- Rechargeable Lithium-Ion battery
- Rugged: IP54 rating against dust and moisture, survives 1.5 m drops to concrete
- Programmable - free Opticon SDK enables solution providers to create customized scanning solutions
- Two year warranty

# OPL-9815

## Product Specifications



### Operation

**CPU:** 32-bit, 96 MHz

**O/S:** Proprietary

**Software:** Programmable in C-language. Ansi-C Cross compiler obtainable. Free software development kit downloadable

**RTC:** Supports year, month, day, hour, minute, second (leap year supported)

### Memory

**Flashrom:** 512 kB

**RAM:** 512 kB

**Storage:** 1 MB

### Display

**Type:** Graphic monochrome LCD with backlight

**Size:** 112 x 64 pixels

### Operating indicators

**Visual:** 1 LED (red/green/orange)

**Non-visual:** Buzzer

### Operating keys

**Entry options:** 18 key total, 12 key (alpha)numeric keypad, 2 function keys, 3 control keys, 1 scan key

### Communication

**IrDA:** Ver 1.2 physical layer, baurate 2400 bps - 115.2 kbps

**Bluetooth:** Ver. 2.1, class 2, SPP and HID

**GPS:** NMEA 0183

### Power

**Rechargeable battery:** Lithium-Ion 3.7V 1100 mAh

**Backup battery:** 3V 3 mAh

**Operating time:** Ca. 50 hours (1 scan / 5 sec excl. connection), ca. 10 hours (1 scan / 5 sec incl. GPS connection)

**Date retention time:** 72 hours

**Charging method:** Separate cradle CRD-972x series

### Barcode Scanner Optics

**Light source:** 650 nm visible laser diode

**Scan rate:** 100 scans / seconds

**Reading pitch angle:**  $\pm 25^\circ$

**Reading skew angle:**  $-50$  to  $-8^\circ$ ,  $+8$  to  $+50^\circ$

**Reading tilt angle:**  $\pm 20^\circ$

**Curvature:**  $R \geq 20$  mm (EAN8),  $R \geq 25$  mm (EAN13)

**Min. pcs value:** 0.45

**Depth of field at code 39:**

35 - 70 mm (0.15 mm) / 1.38 - 2.76 in (6 mil),

35 - 120 mm (0.25 mm) / 1.38 - 4.72 in (10 mil),

35 - 210 mm (0.5 mm) / 1.38 - 8.27 in (20 mil),

60 - 300 mm (1.00 mm) / 2.36 - 11.81 in (39 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-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

**Postal Code:** Chinese Post, Korean Postal Authority code

### Durability

**Temperature in operation:** 0 to 40 °C / 32 to 104 °F

**Temperature in storage:** -20 to 60 °C / -4 to 140 °F

**Humidity in operation:** 20 - 85% (non-condensing)

**Humidity in storage:** 20 - 90% (non-condensing)

**Ambient light immunity:** Fluorescent 3,000 lx max, direct sun 50,000 lx max, Incandescent 3,000 lx max

**Drop test:** 1.5m / 5 ft drop onto concrete surface

**Protection rate:** IP54

### Physical

**Dimensions (WxHxD):** 44 x 140 x 22 mm / 1.73 x 5.51 x 0.87 in

**Weight body:** Ca. 115 g / 4.1 oz (excl. battery)

**Case:** ABS, Black

### Regulatory & Safety

**Product compliance:** CE, FCC, RoHS, IEC60825-1 Class 2, FDA CDRH Class II

### Items

**Enclosed:** Wrist strap, standard battery

**Sold separately:** Rechargeable battery, CRD-9723RU cradle (serial communication, charging), power supply for the cradle