

OPL-9815

Laser scanner

A Bluetooth laser scanner features GPS, a real-time clock and 18-key operation for data-capture applications that require location and time stamps, as well as data entry. Since the OPL-9815 is programmable, custom solutions can be made using the free SDK from Opticon.



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
- 18-key keypad and monochrome 112x64 pixel LCD screen with backlight
- Memory: 512KB of flash ROM and 1MB of RAM
- 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, baudrate 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° , $+8$ 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

2D Code: Composite Codes, MicroPDF417*, PDF417*

(* requires use of an external library)

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