

# OPL-9813

## Mobile Data Collector

### Highlights

- Ideal solution for asset management, inventory control and mobile sales automation
- High speed laser barcode scanner at 100 scans/second
- Wireless Bluetooth (HID or SPP) transmission of data to a host
- Data can also be transferred via USB, RS232 or 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 512KB of RAM
- Compact size and weight: 1.73" x 5.51" x 0.87" (WxLxD), 3.8 ounces
- Rechargeable Lithium-Ion battery
- Durable: survives 5 foot drop to concrete
- IP 54 rating against dust and moisture
- Programmable - free Opticon SDK enables solution providers to create customized scanning solutions
- Two year warranty



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## Product Specifications

### OPERATION

**CPU:** 96MHz Renesas RX

**OS:** Proprietary

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

**RTC:** Accuracy +/- 20ppm; Supports year, month, day, hour, minute, second (leap year supported)

### MEMORY

**FLASHROM:** 512KB

**RAM:** 512 KB

### OPERATING INDICATORS

**VISUAL:** 3 LEDs (red/green/blue)

**AUDIBLE:** Buzzer

### OPERATING KEYS

**ENTRY OPTIONS:** 3 keys total, 2 function keys, 1 scan key

### COMMUNICATION

**IRDA:** Version 1.2, baudrate 2400 bps - 115.2 kbps

**BLUETOOTH:** Version 2.1, HID and SPP

**GPS:** Media Tek MT 3339, -165dBm sensitivity: up to 10Hz update rate; 12 multi-tone active interference canceller

### POWER

**RECHARGEABLE BATTERY:** Lithium-Ion 3.7V 1000mAh; Charging time: approximately 3 hours, from discharged to full

**BACKUP BATTERY:** Rechargeable manganese silicon lithium battery 3mAh; standby time: minimum 48hrs

**OPERATING TIME:** Ca. 50 hours (1 scan / 5 sec excl. connection), circa 10 hours (1 scan / 5 sec incl. GPS connection)

**DATA RETENTION TIME:** Ca. 72 hours

**CHARGING METHOD:** via cradle, which is sold separately or available in a kit

### BARCODE SCANNER OPTICS

**LIGHT SOURCE:** 650 nm visible laser diode

**SCAN METHOD:** bi-directional scanning

**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)

**MINIMUM RESOLUTION AT PCS 0.9:** 0.15 mm / 6 mil

**MINIMUM PCS VALUE:** 0.45

**DEPTH OF FIELD AT PCS 0.9, CODE 39:**

39 mil (1.0 mm) 2.76 - 29.59 in (70 - 650 mm)

20 mil (0.5 mm) 1.97 - 16.54 in (50 - 420mm)

10 mil (0.25 mm) 1.97 - 10.24 in (50 - 260 mm)

6 mil (0.15 mm) 1.97 - 5.91 in (50 - 150 mm)

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-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

**BARCODE (POSTAL CODES):** Chinese Post, Korean Postal Authority code

**STACKED 1D:** Composite Codes, MicroPDF417, PDF417

### DURABILITY

#### TEMPERATURE:

Operation: 32 to 104 °F (0 to 40 °C)

Storage: -4 to 140 °F (-20 to 60 °C)

#### HUMIDITY:

Operation: 20 - 85% (noncondensing)

Storage: 20 - 90% (non-condensing)

#### AMBIENT LIGHT IMMUNITY:

White: 3,000 lx max

Fluorescent: 3,000 lx max

Direct Sun: 50,000 lx max

**DROP TEST:** 5 ft (1.5 m) drop onto concrete surface

**PROTECTION RATE:** IP 54

### PHYSICAL

**DIMENSIONS (WXHXD):** 1.73 x 5.51 x 0.87 in (44 x 140 x 22 mm)

**WEIGHT BODY:** Ca. 3.8 oz (110 g) (including battery)

**CASE:** ABS, black

### REGULATORY AND SAFETY

**PRODUCT COMPLIANCE:** CE, FCC, VCCI, RoHS, JIS-C-6802 Class 1, IEC 60825-1 Class 1, FDA CDRH Class I

### ENCLOSED ITEMS

**RECHARGEABLE BATTERY**

**HAND STRAP**

### SOLD SEPARATELY

**CRD-9723RU CRADLE:** Single-slot communication/charging, USB and RS232

**CRD-9723RU1 CRADLE:** 5-slot, 1x communication, 5x charging, USB and RS232

**CRD-9723RU5 CRADLE:** 5-slot, 5x communication, 5x charging, USB, RS232 and RS485

**CRD-9727 CRADLE:** Single-slot communication/charging, GSM

**NYLON CASES:** Choice of swivel clip or fixed clip

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