

OPL-9815

Mobile Data Collector



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: 1.7" x 5.5" x 0.9" (WxLxD), 3.8 ounces
- Rechargeable Lithium-Ion battery
- Rugged: IP54 rating against dust and moisture, survives 5 foot drops to concrete
- Programmable - free Opticon SDK enables solution providers to create customized scanning solutions
- Two year warranty



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Product Specifications

OPERATION

CPU: 32-bit

OS: Proprietary

SOFTWARE: Programmable in C-language. Ansi-C Cross compiler obtainable. Software development kit free downloadable

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

MEMORY

FLASHROM: 1 MB

SRAM: 512 kB

DISPLAY

TYPE: Graphic LCD with backlight

SIZE: 112 x 64 pixels

OPERATING INDICATORS

VISUAL: 1 LED (red/green/orange)

AUDIBLE: Buzzer

OPERATING KEYS

ENTRY OPTIONS: 18 keys total, 12 key (alpha)numeric keypad, 2 function keys, 3 control keys, 1 scan key

COMMUNICATION

IRDA: Version 1.2, baudrate 2400 bps - 115.2 kbps

BLUETOOTH: Version 2.1, class 2, SPP and HID

GPS: NMEA 0183, SiRF Star III, 4.8 kbps

POWER

RECHARGEABLE BATTERY: Lithium-Ion 3.7V 1100mAh

BACKUP BATTERY: Rechargeable manganese silicon lithium battery 3mAh

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

DATA RETENTION TIME: Ca. 72 hours

CHARGING METHOD: Separate cradle CRD972x series

BARCODE SCANNER OPTICS

LIGHT SOURCE: 650 nm visible laser diode

SCAN METHOD: Vibrating mirror

SCAN RATE: 100 scans/sec

READING PITCH ANGLE: -25 to 0°, 0 to +25°

READING SKEW ANGLE: -50 to -8° / +8 to +50°

READING TILT ANGLE: -20 to 0°, 0 to +20°

CURVATURE: R>20 mm (EAN 8), R>25 mm (EAN 13)

MINIMUM RESOLUTION AT PCS 0.9: 6 mil (0.15 mm)

MINIMUM PCS VALUE: 0.45

DEPTH OF FIELD: At PCS 0.9, Code 39
39 mil (1.0 mm) 2.36 - 11.81 in (60 - 300 mm)
20 mil (0.5 mm) 1.38 - 8.27 in (35 - 210 mm)
10 mil (0.25 mm) 1.38 - 4.72 in (35 - 120 mm)
6 mil (0.15 mm) 1.38 - 2.76 in (35 - 70 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 (2D): Composite Codes, MicroPDF417*, PDF417*

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

(* requires use of an external library)

DURABILITY

TEMPERATURE

Operation: 32 - 104 °F (0 - 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 (W X H X D): 1.73 x 5.51 x 0.87 in (44 x 140 x 22 mm)

WEIGHT BODY: Ca. 4.1 oz (115 g) (excl. battery)

CASE: ABS, Black

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

ENCLOSED ITEMS

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: With either a swivel clip or fixed clip

REPLACEMENT BATTERY



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