OPL9815

GPS Data Collector

Bluetooth™ HID

Bluetooth™ SPP

GPS

Infrared (IrDA)

✚ Features & Benefits

- Wireless Bluetooth™ laser barcode scanner
- GPS and Real Time Clock for location and time stamping
- Bluetooth™ 2.1 HID and SPP
- 512KB of flash ROM; 512 KB of RAM
- 18-key operation
- Monochrome 112x64 pixel screen with backlight
- 100 scans per second
- 48 hours minimum standby time
- IP 54
- Two-year warranty

✚ Product Specifications

Operation
- CPU: 96Mhz Renesas RX
- O/S: 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

Display
- 112 x 64 pixels; monochrome
- Backlit

Operating indicators
- Visual: 3 LEDs (red/green/blue)
- Non-visual: Buzzer

Operating keys
- Entry options: 10 alpha-numeric keys, 1 punctuation key (period and comma) , 4 function keys (shift, backspace, clear, and enter), 2 navigation keys, 1 scan key (18 keys total)

Communication
- Bluetooth™: 2.1 HID and SPP
- IrDA: Ver. 1.2, baudrate 2400 bps - 115.2 kbps
- 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: circa 50 hours (1 scan / 5 sec excl. connection), circa 10 hours (1 scan / 5 sec incl. GPS connection)
- Data retention time: circa 72 hours
- Charging method: serial, modem, or GSM cradle (sold separately)

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 0º, 0 to +35º
- Reading skew angle: -50° to -8 , +8 to +50°
- Reading tilt angle: -20 to 0º, 0 to +20º
- Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.15 mm / 6 mil

Barcode scanner Optics *(continued)*
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9, Code 39
  - 70 - 650mm / 2.76 - 29.59in (1.0mm / 39mil),
  - 50 - 420mm / 1.97 - 16.54in (0.5mm / 20mil),
  - 50 - 260mm / 1.97 - 10.24in (0.25mm / 10mil),
  - 50 - 150mm / 1.97 - 5.91in (0.15mm / 6mil),
  - 60 - 120mm / 2.36 - 4.72in (0.127mm / 5mil)

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
- Stacked 1D: Composite Codes, MicroPDF417, PDF417

Durability
- Temperature in operation: 0 to 40º C / 32 to 104º F
- Temperature in storage: -20 to 60º C / -4 to 140º F
- Humidity in operation: 20 - 85% (non-condensing)
- Humidity in storage: 20 - 90% (non-condensing)
- Ambient light immunity: white 3,000 lux max, fluorescent 3,000 lx max, direct sun 50,000 lx max
- Drop test: 1.5m / 5ft drop onto concrete surface
- Protection rate: IP 54

Physical
- Dimensions (w x h x d):
- 44 x 140 x 22mm / 1.73 x 5.51 x 0.87in
- Weight body: circa 110 g / 3.8 oz (including battery)
- Case: ABS, black

Regulatory & Safety
- Product compliance: CE, FCC, VCCI, RoHS, JIS-C-6802 Class 1, IEC 60825-1 Class 1, FDA CDRH Class l

Enclosed items
- Rechargeable battery
- Hand strap

Sold separately
- CRD9723RU Cradle: Serial communication, charging
- CRD9723RU1 Cradle: Multi-cradle, 1x communication, 5x charging
- CRD9723RU5 Cradle: Multi-cradle,
- 5x communication, 5x charging
- CRD9726 Cradle: Modem communication, charging
- CRD9727 Cradle: GSM communication, charging
- OPL9700 nylon case with swivel clip
- OPL9700 nylon case with fixed clip

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