OPTICON

Companion Scanner

OPN-2006

Bluetooth® Laser Barcode Scanner

Bluetooth 3.0

Bluetooth (HID/SPP)

USB (HID/VCP/MSD)

+ Features and Benefits

- Price point makes real-time barcode scanning with an Android, Apple, Blackberry or Windows Mobile host device affordable

- Simple Bluetooth pairing and one-touch barcode scanning

- Supports HID and SPP Bluetooth profiles for added flexibility

- Ready-to-go out of the box, just pair it with your device

- High speed 100 scans/second laser barcode scanner

- Memory: 512kB FlashROM, 96KB RAM and 1MB External FlashROM

- Leverage the free Software Development Kit (SDK) to customize scanning behavior

- Small form factor: 2.44"W x 1.26"L x 0.63"D and weighs only 1.0 ounces

- Easily fits into pocket or on a key chain

- Audible and visible feedback after a successful scan

- USB rechargeable, high capacity Lithium-Ion battery

- Scanner comes with USB data/charging cable and neck lanyard

- Two year warranty

+ Product Specification

Operation
- **CPU:** 32-bit
- **OS:** Proprietary
- **Software:** 4 applications available (also programmable in C-language. Free software development kit with free RX compiler)
- **RTC:** Supports year, month, day, hour, minute, second (leap year supported)

Memory
- **FlashROM:** 512 kB
- **RAM:** 96 kB
- **External FlashROM:** 1 MB

Operating Indicators
- **Visual:** Multi color LED (red/green/orange/blue)
- **Audible:** Buzzer

Operating Keys
- **Entry Options:** 2 keys total, 1 function key, 1 scan key

Communication
- **USB:** Mini USB, Version 1.1, USB-VCP (USB-HID and USB-MSD on request)
- **Bluetooth:** Version 3.0, SPP, HID, 1 to 1 connection, master and slave mode, authentication and encryption

Power
- **Rechargeable Battery:** Lithium-Ion Polymer 3.7V 240mAh
- **Operating Time:**
  Batch: 1.000 scans (1 scan / 5 sec)
  Idle: 1-2 months
  Bluetooth: Ca. 12 hours RAM
- **RAM Data Retention Time:**
  Empty: Ca. 72 hours
  Full: 1-2 months
- **Charging Method:** Enclosed USB cable

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:** -40 to -8˚, +8 to +40˚
- **Reading Tilt Angle:** -20 to 0˚, 0 to +20˚
- **Curvature:** R>15 mm (EAN8), R>20 mm (EAN13)
  Min. PCS value: 0.45
- **Depth of Field (UPC @ PCS 0.9):**
  39 mil (1.0 mm): 3.15 - 11.81 in (80 - 300 mm)
  20 mil (0.5 mm): 2.36 - 9.84 in (60 - 250 mm)
  10 mil (0.25 mm): 2.36 - 7.87 in (60 - 200 mm)
  6 mil (0.15 mm): 2.36 - 5.12 in (60 - 130 mm)
  5 mil (0.127 mm): 2.36 - 4.33 in (60 - 110 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-ISMN-ISSN, Matrix 2of5, MSI/Plessey-UK/Plessey, S-Code, Telepen, Tri-Optic
- **Barcode (Postal Codes):** Chinese Post, Korean Postal Authority code

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 - 85% (non-condensing)
- **Ambient Light Immunity:**
  Fluorescent: ~ 4,000 lx
  Incandescent: ~ 4,000 lx
  Sunlight: ~ 80,000 lx
- **Drop Test:** 5 ft (1.5 m) onto concrete surface
- **Vibration Test:** 10 - 100 Hz with 2G for 30 min
- **Protection Rate:** IP 42

Physical
- **Dimensions (WxHxD):** 1.26 x 2.44 x 0.63 in (32 x 62 x 16 mm)
- **Weight (Body):** Ca. 1.0 oz (29 g) (including battery)
- **Case:** ABS, Black

Regulatory and Safety
- **Product Compliance:** CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

Enclosed Items
- USB cable
- Neck strap

- **The Netherlands:** Hoofddorp
- **France:** Issy Les Moulineaux
- **Germany:** Dietzenbach
- **Italy:** Castel Maggiore (BO)
- **Sweden:** Järfälla
- **United Kingdom:** Luton, Bedfordshire

- **U.S.A.:** Renton, WA
- **Brazil:** São Paulo
- **Japan:** Warabi City
- **Taiwan:** Taipei
- **P.R.China:** Shanghai

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