OPN2004

Ultra Compact Laser Barcode Reader

USB-HID

USB-VCP

✚ Features & Benefits

- Simple, one-touch scanning
- Most affordable batch USB scanner
- Small form factor - weighs only 1.1 oz
- 100 scans/second laser barcode scanner
- Stores over 10,000 barcodes plus timestamps
- Long life Lithium-Ion battery
- Internal battery is rechargeable via USB port
- Audible feedback after a successful scan
- Straightforward USB interface
- Backed by a two-year warranty

Product Specifications

Operation

- CPU: STR7 32 bit, 96 MHz
- O/S: Proprietary
- Software: Programmable in C-language. Ansi-C cross compiler obtainable. Free downloadable software development kit available
- RTC: Accurate to ± 90 seconds per month. Leap year supported

Memory

- FlashROM: 512 KB (Program Storage) + 1 MB (Storage) + time/date stamps
- RAM: 96 KB

Operating Indicators

- Visual: 2 dual red/green LED's
- Auditory: Multi-Tone speaker

Operating Keys

- 1 Trigger Key
- 1 Multi-Function Key

Communication

- USB: Mini USB-B, Ver 2.0 (HID, VCP)

Power

- Battery: 3.7V 140mAh, Lithium Polymer, Rechargeable Internal Battery
- Operating TIme: 8 hours or more at 1 scan/5 seconds
- Charging Method: Enclosed USB cable

Barcode Scanner Optics

- Light Source: Visible Red (650 nm) Laser
- Scan Method: Vibrating Mirror
- Scan Rate: 100 scans/sec
- Minimum Barcode Resolution: 0.127 mm
- Reading Angles:
  - Pitch: -30˚ to 0˚, 0˚ to +30˚
  - Skew: -50˚ to -8˚, +8˚ to +50˚
  - Tilt: ± 20˚
  - Curvature:
    - R ≥ 15 mm (EAN-8)
    - R ≥ 20 mm (EAN-13)
- Min. PCS Value: 0.45
- Depth Of Field (PCS 0.9):
  - 75 mm - 570 mm (2.95 in - 22.44 in), Res. 1 mm (39.37 mils)
  - 55 mm - 350 mm (2.17 in - 13.78 in), Res. 0.5 mm (19.69 mils)
  - 55 mm - 200 mm (2.17 in - 7.87 in), Res. 0.25 mm (9.84)
  - 55 mm - 110 mm (2.17 in - 4.33 in), Res. 0.15 mm (5.91)
  - 65 mm - 90 mm (2.56 in - 3.54 in), Res. 0.127 mm (5 mils)

Supported Symbologies

- 1D:
  - EAN-13, EAN-13 Add-on, EAN-8, EAN-8 Add-on, UPC-A, UPC-A Add-on, UPC-E, UPC-E1, UPC-E Add-on, Code 39, NW-7 (Codabar), Industrial 2 of 5, Interleaved 2 of 5, Code 93, Code 128, MSI/Plessey, IATA, UK/Plesseym, Telepen, Matrix 2 of 5, NW-7 ABC Code, NW-7 CX Code, S-Code, Tri-Optic, Code 39 Full ASCII, Code 39 It.Pharmaceutical, EAN 128, GS1 DataBar Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, Code 11
- Postal Code:
  - Korean Post, Chinese Post Matrix 2 of 5
- 2D:
  - PDF 417, MicroPDF 417

Durability

- Temperature in Operation: 0 to 50 °C / 32 to 122 °F
- Temperature in Storage: -20 to 60 °C / -4 to 140 °F
- Humidity in Operation: 20 - 85% (noncondensing)
- Humidity in Storage: 20 - 85% (non-condensing)
- Ambient Light Immunity:
  - Fluorescent: ~ 4,000 lx
  - Incandescent: ~ 4,000 lx
  - Sunlight: ~ 80,000 lx
- Drop Test: 1.2 m (4 ft) drop onto concrete surface
- Vibration Test: 10 - 100 Hz with 2G for 1 hour
- MTBF: 10,000 hours

Physical

- Dimensions: 62 mm x 32 mm x 17.5 mm (2.44 in x 1.26 in x 0.69 in)
- Weight: ca. 30 g (1.1 oz, including battery)
- Case: ABS, Black

Regulatory & Safety

- Product compliance:
  - FCC Part 15 Subpart B Class B
  - VCCI Class B
  - RoHS
  - JIS-C-6802:2005 Class 2
  - IEC 60825-1 Ed2 2007 Class 2
  - FDA CDRH Class II

Enclosed Items

- OPN2004
- USB Data/Charging cable
- Lanyard
- Quick Start Guide

Sold Separately

- AC USB Adapter

- **The Netherlands**: Hoofddorp
- **France**: Issy Les Moulineaux
- **Germany**: Dietzenbach
- **Italy**: Villanova di Castenaso (BO)
- **Sweden**: Järfälla
- **United Kingdom**: Luton, Bedfordshire
- **U.S.A.**: Renton, WA
- **Brazil**: São Paulo

- **Japan**: Warabi City
- **Taiwan**: Taipei
- **P.R.China**: Shanghai
- **Australia**: West Ryde

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About us
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  - Data destruction
  - Hardware disposal
  - Auditing services

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