

OPN2005

Bluetooth Companion Scanner

Bluetooth (HID/SPP)**USB (HID/VCP/MSD)**

+ Features & Benefits

- Price point makes real-time barcode scanning with an Android, Apple, Blackberry or Windows Mobile host device affordable
- Simple Bluetooth pairing
- Supports HID and SPP Bluetooth profiles for added flexibility
- Ready-to-go out of the box, just pair it with your device
- Conveniently holds up to 20,000 scans when batch mode is required
- Free SDK available to customize scanning behavior
- Small form factor - weighs only 1 oz
- 100 scans/second laser barcode scanner
- Audible and visible feedback after a successful scan
- USB rechargeable Lithium-Ion battery
- Backed by a two year warranty

Operation

- **CPU:** 32-bit
- **O/S:** 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

- **System Flash:** 512 kB
- **RAM:** 96 kB
- **Storage Flash:** 1024 kB (>20.000 barcodes + time stamp)

Operating Indicators

- **Visual:** Multi color LED (red/green/orange/blue)
- **Non-Visual:** Buzzer

Operating Keys

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

Communication

- **USB:** Mini USB, Ver. 1.1, USB-VCP (USB-HID and USB-MSD on request)
- **Bluetooth:** Ver. 2.1, SPP, HID, 1 to 1 connection, master & slave mode, authentication and encryption, Secure Simple Pairing

Power

- **Battery:** Rechargeable Lithium-Ion Polymer 3.7V 240mAh
- **Operating Time (Batch):** 1.000 scans (1 scan / 5 sec)
- **Operating Time (Idle):** 1-2 months
- **Operating Time (Bluetooth):** Ca. 12 hours
- **RAM Data Retention Time (Empty):** Ca. 72 hours
- **RAM Data Retention Time (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):**
 - 80 - 300 mm / 3.15 - 11.81 in (1.0 mm / 39 mil)
 - 60 - 250 mm / 2.36 - 9.84 in (0.5 mm / 20 mil)
 - 60 - 200 mm / 2.36 - 7.87 in (0.25 mm / 10 mil)
 - 60 - 130 mm / 2.36 - 5.12 in (0.15 mm / 6 mil)
 - 60 - 110 mm / 2.36 - 4.33 in (0.127 mm / 5 mil)

Supported Symbolologies

- **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 Code):** Chinese Post, Korean Postal Authority code

Durability

- **Temperature in Operation:** 0 to 40 °C / 32 to 104 °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:** White 4,000 lx max, Fluorescent 4,000 lx max, Direct sun 80,000 lx max
- **Drop Test:** 1.5 m / 5 ft drop onto concrete surface
- **Vibration Test:** 10 - 100 Hz with 2G for 30 min
- **Protection Rate:** IP 42

Physical

- **Dimensions (W X H X D):** 32 x 62 x 16 mm / 1.26 x 2.44 x 0.63 in
- **Weight Body:** Ca. 29 g / 1.0 oz (incl. 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