

# OPN-2006

## Bluetooth® Laser Barcode Scanner



### Highlights

- Price point makes real-time barcode scanning with an Android™, Apple® or Windows® Mobile host device affordable
- Simple Bluetooth pairing and one-touch barcode scanning
- Supports HID and SPP Bluetooth profiles, BT 4.2 and Bluetooth Low Energy (BLE)
- 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

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## Product Specifications

### 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:** BT 4.2, Bluetooth Low Energy (BLE) compliant, 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

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