

# PX-20 2D Bluetooth® Companion Scanner



## **Companion Scanner**

## **Bluetooth** (HID/SPP/SSP)

### USB (HID/VCP)

## + Features and Benefits

- 2D CMOS imager rapidly scans and decodes 1D and 2D barcodes
- Price point makes real-time barcode scanning with an Android, Apple iOS or Windows host device affordable
- Ready-to-go out of the box—just pair it with your Bluetooth device
- Supports Secure Simple Pairing (SSP), Serial Port Profile (SPP) and Human Interface Device (HID) Bluetooth profiles for added flexibility
- Free SDK allows customized scanning behavior
- Memory: FlashROM 512 kB, RAM 96 kB, External FlashROM 1024 kB
- Small form factor: weighs only 1.4 oz, 2.8 x 1.34 x 0.59 in (LxWxD)
- Audible and visible feedback after a successful scan
- USB rechargeable, high capacity Lithium-Ion battery
- Extremely reliable and durable (IP54, 6 ft drop to concrete)
- Comprehensive two year warranty protects your investment

## + Product Specification

#### Operation

- CPU: RX62N 32-bit MCU
- OS: Proprietary
- Software: Multiple 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 FlashROM: 512 kB
- External FlashROM: 1024 kB
- RAM: 96 kB

#### **Operating indicators**

- Visual: 1 LED (red/green/blue)
- Audible: Buzzer

#### **Operating keys**

 Entry Options: 1 trigger key and 1 multi-function key

#### Communication

- USB: MicroUSB, VCP
- Bluetooth: Version 2.1, SPP, HID, SSP, 1 to 1 connection, master/slave mode, authentication and encryption

#### Power

- · Operating Time: 20 hours (1 scan/minute including Bluetooth communication), 35 hours (1 scan/minute, Bluetooth not activated)
- Charging Method: Enclosed USB cable

#### **2D Imager Optics**

- · Light Source: Green aiming LED, 2 illumination red I FDs
- · Scan Method: CMOS area sensor, 752 x 480 pixels
- · Scan Rate: Up to 60 fps
- Reading Pitch Angle: -50 to 0°, 0 to +50°
- Reading Skew Angle: -50 to 0°, 0 to +50°
- Reading Tilt Angle: 360°
- Focal Distance: 5.12 in (130 mm) from front
- Curvature: R ≥0.79 in (20 mm)
- Minimum Resolution at PCS 0.9: 5 mil (0.127 mm)
- Minimum PCS Value: 0.30
- Field of View: Horizontal 40.6°. Vertical 26.4°
- Depth of Field:
- Code 39 at 5 mil (0.127 mm): 0.30 - 0.41 in (90 - 125 mm)
- Code 39 at 10 mil (0.254 mm):
- 0.18 0.66 in (55 200 mm) Code 39 at 20 mil (\* 0.508 mm): 0.98 in (\* - 300 mm)
- Code 95 at 8.4 mil (0.212 mm) 3.74 - 4.72 in (120 mm)
- Code 95 at 15 mil (0.381 mm):
- 2.36 7.87 in (60 200 mm) \*The depth of field depends on the view angle and symbol length

#### Supported Symbologies

- Barcode (1D): UPC-A, UPC-A Add-on, UPC-E, UPC-E Add-on, EAN-13, EAN-13 Addon, EAN-8, EAN-8 Add-on, JAN-8, JAN-13, Code 39, Tri-Optic, Codabar (NW-7), Industrial 2 of 5, Interleaved 2 of 5, S-Code, IATA, Code 93 Code 128, MSI/Plessey, UK/Plessey, TELEPEN Matrix 2of5, Code 11, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Composite GS1-DataBar, Composite GS1-128, Composite EAN, Composite UPC
- Barcode (2D): PDF417, MicroPDF417, Codablock F, QR Code , Micro QR Code, DataMatrix (ECC 0 - 140 / ECC 200), MaxiCode (Modes 2 to 5), Aztec Code, Chinese Sensible Code
- · Barcode (Postal Codes): Chinese Post, Korean Postal Authority code

#### **Durability**

- Temperature: Operation: 14 to 122 °F (-10 to 50 °C) Storage: -4 to 140 °F (-20 to 60 °C)
- Humidity Operation: 20 - 85% (non-condensing) Storage: 20 - 85% (non-condensing)
- Ambient Light Immunity: Fluorescent 10,000 lx max, Direct sun 100,000 lx max, Incandescent 10,000 lx max
- Drop Test: 6 ft (1.8 m) drop onto concrete surface
- Protection Rate: IP 54

#### **Physical**

- Dimensions (WxHxD):
- 1.34 x 2.8 x 0.59 in (34 x 71 x 15 mm)
- Weight (Body): Ca. 1.4 oz (40 g) (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, IEC62471, EN60950-1, IEC60950-1, EN55022, EN55024

#### **Enclosed Items**

USB cable, neck strap

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