

PX-20

2D Bluetooth® Companion Scanner



Highlights

- 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
- BT 4.2 and Bluetooth Low Energy (BLE)
- 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)
- Two year warranty

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Product Specifications

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: BT 4.2, Bluetooth Low Energy (BLE) compliant, 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 LEDs

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): 3.54 – 4.72 in (90 - 125 mm)

Code 39 at 10 mil (0.254 mm): 2.16 – 7.87 in (55 - 200 mm)

Code 39 at 20 mil (* - 0.508 mm): 11.81 in (* - 300 mm)

QR Code at 8.4 mil (0.212 mm) 3.74 – 4.72 in (95 - 125 mm)

QR Code 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 Add-on, 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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