

PowerScan 8300 Scanner Series



Rugged, Corded and Cordless Industrial Laser Barcode Scanners

The PowerScan® 8300 Scanner series offers corded and cordless laser barcode scanning to meet a wide range of rugged industrial application requirements.

Superior reading performance is enhanced by Puzzle Solver™ Technology for fast and accurate reading of standard, poorly printed or damaged bar codes. Standard range and auto-range optic options, combine with multiple good-read feedback features ensure productivity. The PowerScan M8300 delivers extended flexibility and reliable mobility with seamless roaming and point-to-point and multi-point transmission. Finally, both models are ergonomically designed, lightweight and well balanced ensuring optimal operator comfort during scan intensive operations.

Features & Benefits

Ergonomic Design

- Ergonomic handle and balanced weight ensure optimal comfort and productivity
- Green Spot feature provides "good read" feedback to the user directly on the barcode (up to 80 - 90 cm / 2.6 - 3 ft)

Superior Performance & Productivity

- Standard range (contact up to 1m / 3ft) and auto-range (10 cm to 10 m / 4" to 33 ft) optic options available
- Puzzle Solver™ Technology enables fast and accurate reading of standard, poorly printed or damaged barcodes.
- Built-in multiple interface (RS-232, Keyboard Wedge, Wand and USB) for flexible installation and configuration
- Seamless roaming and support for point-to-point and multi-point transmission.

Essential Ruggedness

- Rubber overmold protects against shock, abuse
- Withstands multiple drops and extreme shock conditions (up to 50 drops from 2m / 6.5 ft)
- Includes IP65 (without display) and IP64 rating (with display), protecting against dust and water
- Operating temperature range of -30 °C to +50 °C (-22 °F to +122 °F)

Typical Applications

- Work-In Progress Control
- Warehouse Management
- Shipping and Receiving Control
- Cash and Carry Retail Applications
- Forklift Warehouse Applications



PowerScan 8300 Scanner Series

Specifications*



REFERENCES

DESCRIPTION:
Industrial Handheld Laser Bar Code Scanner Series

MODELS:

- PowerScan D8300 – Corded
- PowerScan M8300 – Cordless

MODELS PowerScan D8300 (corded) & PowerScan M8300 (cordless)

LIGHT SOURCE:

- Visible Laser Diode (VLD) 630 nm - 680 nm

MAX. SCAN RATE:

- 35±5 scans/sec

MAX. RESOLUTION:

- 0.076 mm / 3 mil (D/M83X0);
- 0.19 mm / 7.5 mil (D/M83X0 Auto Range)

PRINT CONTRAST RATIO:

- (min) 15%

READING ANGLE:

- Skew: ±60°;
- Pitch: 5 to 55°, -5 to -55°; Tilt: ±20°

READING INDICATORS:

- Laser ON, 3 GL™ Feedback, Beeper;
- Good Transmission (M8300 only)

BAR CODES:

- 2/5 Family, Code 39 (plus Code 32, Cip 39), EAN/UPC, EAN 128, Code 128, Code 93, CODABAR, Code 49, Code MSI, Code 11, Code 16K, ISBN/ISSN, ISBT 128, GSI DataBar™ (formerly RSS)

PROGRAMMING METHOD:

- Manual Reads special bar codes
- Automatic Software commands through the RS-232 / USB interfaces

AMBIENT LIGHT CONDITIONS:

- Immune to light exposure in offices, facilities, and direct exposure to sunlight

HUMIDITY: 90% non condensing

MODELS POWERSCAN D8300

POWER SUPPLY:

- 4 to 30VDC

CONSUMPTION:

- 420 mA @ 4V; 310 mA @ 5V;
- 62 mA @ 30V (D8330)
- 500 mA @ 4V; 370 mA @ 5V;
- 70 mA @ 30V (D8340)

INTERFACES:

- USB, RS-232, Keyboard Wedge, Wand Emulation (D8330), TTL Laser Out (D8340)

OPERATING TEMPERATURE:

- -30 °C to 50 °C / -22 °F to 122 °F

STORAGE TEMPERATURE:

- -30 to 70 °C / -22 to 158 °F

DROP RESISTANCE:

- Withstands 50 drops from 2 m / 6.5 ft to concrete

WEIGHT:

- Approx. 295 g / 10.4 oz

ENVIRONMENTAL PROTECTION:

- IP65

MODELS PowerScan M8300

DISPLAY:

- (M8300-D models only) Graphic with backlight, 32 x 96 dots, and font dimension can be selected by the user (with default selection, 4 lines x 16 columns)

KEYPAD:

- (M8300-D models only) 3 keys

BATTERY TYPE:

- Li-Ion 2150 mAh

RECHARGE TIME:

- External: max. 4 hrs / Host: max. 10 hrs

OPERATING AUTONOMY:

- Over 60,000 operations

OPERATING TEMPERATURE:

- -20 °C to 50 °C / -4 °F to 122 °F

STORAGE TEMPERATURE:

- -20 °C to 70 °C / -4 °F to 158 °F

DROP RESISTANCE:

- Withstands 50 drops from 2 m / 6.5 ft to concrete

WEIGHT:

- Approx. 395 g / 13.9 oz

ENVIRONMENTAL PROTECTION:

- IP65 (without display), IP64 (with display)

CRADLE BC-8030 / BC-8060

POWER SUPPLY:

- External: 10 to 30VDC,
- Host: 5VDC ± 10%

POWER CONSUMPTION:

- External: max. 10 W, Host: max. 500 mA

READING INDICATORS:

- Battery charging (red), Charge completed (green), Power/Data (yellow)

INTERFACES:

- USB, RS-232, Keyboard Wedge, Wand Emulation

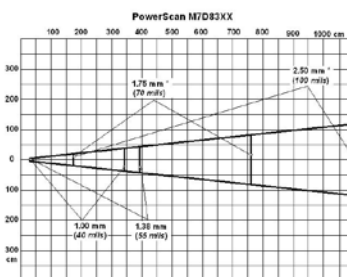
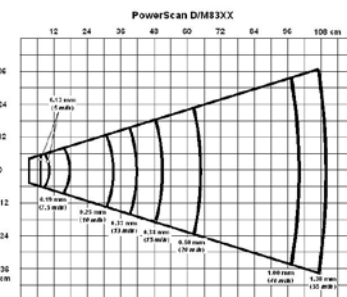
DIMENSIONS:

- 240 x 108 x 95 mm (without antenna)
- (9.44 x 4.25 x 3.75 in)

WEIGHT:

- Approx. 380 g / 13.4 oz

READING AREA:



RADIO SPECIFICATIONS

RADIO FREQUENCY:

- 433.92 MHz, 910 MHz

BIT RATE:

- 433.92 MHz (19,200 bauds)
- 910 MHz (36,800 bauds)

EFFECTIVE RADIATED POWER:

- 433.92 MHz; <10 mW
- 910 MHz <1 mW

RADIO RANGE:

- Up to 50 m / 164 ft (433.92 MHz);
- Up to 30 m / 99 ft (910 MHz), depending on the working area

MAX. NUMBER COEXISTING SYSTEMS:

- Max. 32 readers per radio receiver;
- max. 2000 readers in the same area

REGULATORY APPROVALS

ELECTRICAL:

- Complies to C-CSA-US (60950 to Canada and USA)

EMISSIONS LASER CLASSIFICATION:

- Complies to FCC-A, EN 55022-B, AS/NZS 3548 CDRH Class II, (Caution: Laser Radiation – do not stare into beam)
- IEC 60825-1 Class 2

RADIO:

- ETSI-ETS 300222; FCC 15.249.

Product is ROHS Compliant

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* Specifications are subject to change without notice.