POWERSCAN™ PBT8300

⊕DATALOGIC

BUILT TO LAST

PowerScan bar code readers are the ultimate industrial handheld devices, designed and constructed to withstand the toughest environmental conditions in demanding applications, offering lasting performance and outstanding reliability combined with exceptional reading performance and accuracy. The PowerScan PBT8300 laser scanner features the standard Bluetooth® wireless technology combined with the outstanding reliability and reading performance found in PowerScan products.

SIMPLE TO USE AND DEPLOY

Based on the Bluetooth 2.0 standard, the PowerScan PBT8300 scanner is easily configured to be compliant with Class 1 or Class 2 requirements, according to the mobility range desired, allowing for distances that exceed 90 m / 295 ft in open air. Connectivity is implemented through the receiving base station, which communicates to the host through a choice of interfaces (Serial, USB, Keyboard Wedge or Wand Emulation), or by connecting the scanner directly to any commercial or embedded Bluetooth® compliant device, or via Ethernet (in compatibility mode), by using the BC9180-BT base/charger: Standard Ethernet and Industrial Ethernet protocols (Ethernet IP and Modbus).

DEVELOPED FOR INDUSTRIAL USE

The PowerScan PBT8300 scanner mounted on a forklift with a Vehicle Mount Terminal (VMT) provides an excellent solution for warehouse applications. The PowerScan PBT8300 is available in three different models: a basic cordless model (PBT8300); an intermediate model with a display and 3-key keypad (PBT8300-D); and the advanced model (PBT8300-DK) which features a display and a full 16-key alphanumeric keyboard. The PBT8300-DK model additionally includes an embedded code-quantity application, for use in inventory, picking or receiving applications. All PowerScan PBT8300 models are available with reading optics for Standard Range (SR) or Auto Range (AR) for reading distances up to 12.5 m / 41.0 ft.

FEATURES

- Bluetooth® 2.0 Compliant: Class 1 or Class 2 configurable via software
- Supports Bluetooth® wireless technology SPP and HID profiles
- Piconet with up to 4 scanners connected to the same base station
- Ethernet Connectivity (Standard and Industrial)
- Optics available in Standard Range (contact up to 1.0 m / 3.3 ft) and Auto Range (20 cm / 8 in up to 12.5 m / 41.0 ft)
- Datalogic 3GL™ and loud beeper for good-read feedback
- User replaceable lithium-ion battery
- Operates over a wide range of temperatures
- Water and particulate sealing rating: IP65/IP64
- Drop resistance to 2.0 m / 6.5 ft
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

INDUSTRY-APPLICATIONS

- Warehouse and Distribution Centers: Shipping and Receiving, Order Processing, Parcel Preparation, Pallet Tracking and Put-away
- Manufacturing / Shop Floor: Work in Progress, Component Tracking, Quality Control and Inventory

TECHNICAL SPECIFICATIONS

CORDLESS COMMUNICATIONS

BLUETOOTH WIRELESS TECHNOLOGY	Piconet: Max. Readers per Radio Receiver: 4 Profiles: HID (Human Interface Device); SPP (Serial Port Profile) Protocol: Bluetooth 2.0 Certified Class 1 or Class 2 (configurable); Radio Frequency: 2.40 to 2.48 GHz; Radio Range (Open Air): Class 1: Exceeds 90 m / 295 ft radio range; Class 2: Exceeds 40 m / 131 ft radio range; Range distances are measured using the base station. Range with connection to other Bluetooth peripherals may show different results. Security: Data Encryption; Scanner Authentication

DECODING CAPABILITY

1D / LINEAR CODES	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
STACKED CODES	Code 16K; Code 49; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional

ELECTRICAL

BATTERY	Battery Type: Lithium-Ion, 2150 mAh Charge Time: External Power: 4 Hours; Host Power: 10 hours; Reads per Charge: > 50,000
CRADLE INDICATOR LEDS	Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)
CURRENT	Operating (Typical): 1 A @ 10 VDC, 330 mA @ 30 VDC, POT: 500 mA
INPUT VOLTAGE	10 - 30 VDC, POT: 5 VDC +/- 10%

ENVIRONMENTAL

AMBIENT LIGHT	Immune to light exposure in offices/facilities and direct exposure to sunlight.
DROP RESISTANCE	Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface.
ESD PROTECTION (AIR DISCHARGE)	20 kV
HUMIDITY (NON-CONDENSING)	90%
PARTICULATE AND WATER SEALING	PBT8300: IP65; PBT8300-D, PBT8300-DK: IP64
TEMPERATURE	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -20 to 70 °C / -4 to 158 °F

INTERFACES

INTERFACES	RS-232 / USB / Keyboard Wedge / Wand Multi-Interface; Ethernet (Standard, Industrial) in compatibility mode (BC9180-BT)

PHYSICAL CHARACTERISTICS

DIMENSIONS	Cradle: 24.0 x 10.8 x 9.5 cm / 9.5 x 4.3 x 3.7 in PBT8300: 20.7 x 11.4 x 6.9 cm / 8.1 x 4.5 x 2.7 in PBT8300-D, PBT8300-DK: 21.0 x 11.4 x 6.9 cm / 8.3 x 4.5 x 2.7 in
DISPLAY	Display Type: PBT8300-D, PBT8300-DK: Graphic with backlight Font Dimensions: PBT8300-D only: User selectable (4 lines x 16 columns default) Screen Dimensions: 32 x 96 pixels
KEYPAD	PBT8300-D Only: 3-Key Keypad; PBT8300-DK: 16-Key Keypad
WEIGHT	Cradle: 380.0 g / 13.4 oz; PBT8300: 380.0 g / 13.4 oz PBT8300-D: 410.0 g / 14.4 oz; PBT8300-DK: 420.0 g / 14.8 oz

READING PERFORMANCE

LIGHT SOURCE	630 - 680 nm VLD; Aiming: 630 - 680 nm VLD, Activated by 'Double-Click' Trigger
PRINT CONTRAST RATIO (MINIMUM)	15%
READ RATE (MAXIMUM)	35 +/- 5 scans/sec.
READING ANGLE	Pitch: 5 to 55° / -5 to -55; Roll (Tilt): +/- 20°; Skew (Yaw): +/- 60°
READING INDICATORS	Beeper (Adjustable Tone and Volume); Datalogic Three Green Lights (3GL™) Good Read Feedback; Datalogic 'Green Spot' on the Code; Dual Good Read LEDs; Good Transmission
RESOLUTION (MAXIMUM)	PBT83X0: 0.076 mm / 3 mils; PBT83X0 Auto Range: 0.190 mm / 7.5 mils

READING RANGES

TYPICAL DEPTH OF FIELD	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.

PBT8300	**PBT8300 AR**
5 mils: 2.1 to 13.3 cm / 0.8 to 5.2 in	7.5 mils: 18.0 to 50.0 cm / 7.0 to 19.7 in
7.5 mils: 3.5 to 24.2 cm / 1.4 to 9.5 in	10 mils: 18.0 to 85.0 cm / 7.0 to 33.5 in
10 mils: 2.9 to 42.8 cm / 1.1 to 16.8 in	15 mils: 15.0 to 165.0 cm / 5.9 to 65.0 in
13 mils: 2.3 to 55.1 cm / 0.9 to 21.7 in	20 mils: 12.0 to 210.0 cm / 4.7 to 82.7 in
20 mils: 6.3 to 78.5 cm / 2.5 to 30.9 in	40 mils: 18.0 to 375.0 cm / 7.0 to 147.6 in
40 mils: 2.5 to 97.8 cm / 1.0 to 38.5 in	55 mils: 25.0 to 485.0 cm / 9.8 to 15.9 ft
	Reflective -100 mils: 1.5 to 12.5 m / 4.9 to 41.0 ft

SAFETY & REGULATORY

AGENCY APPROVALS	The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference Guide for this product can be referred to for a complete list of certifications.
ENVIRONMENTAL COMPLIANCE	Complies to China RoHS; Complies to EU RoHS
LASER CLASSIFICATION	Caution Laser Radiation - Do not stare into beam; CDRH Class II; EN 60825-1 Class 2

UTILITIES

DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is available for download at no charge.

WARRANTY

WARRANTY	3-Year Factory Warranty

ACCESSORIES

Base Stations/Chargers
- BC8030-BT Base/Charger Multi-Interface
- BC9180-BT: Base/Dual Charger, Multi-Interface/Ethernet (Standard, Industrial)
- CHR-PM80 Charger (C-8000)

Batteries/Battery Chargers
- FBP-PM80 Fixed Battery Pack (FBP-8000)
- MC-P080 Multiple Battery Charger (MC-8000)
- RBP-PM80 Removable Battery Pack (RBP-8000)

Cases/Holsters
- 11-0138 Heated Holder, 36 VDC;
  11-0139 Heated Holder, 24 VDC ;
  11-0140 Heated Holder, 48 VDC (Heated Holders not for use with PBT8300-D/-DK models)
- HLS-P080 Universal Holster (HLS-8000)
- PC-P080, PCD-P080 Protective Case/Belt Holster (PC-8000, PC-8000-D)

Mounts/Stands
- 7-0404 Industrial Take-Up Reel
- HLD-P080 Desk/Wall Holder (HLD-8000)
- STD-P080 Hands Free Stand (STD-8000)
- VMK-PM80 Vehicle Mount Kit

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