

# POWERSCAN™ 9600 RFID SERIES

Improving traceability and productivity with RFID technology



## HYBRID RFID AND BARCODES SCANNING TECHNOLOGIES

The PowerScan 9600 RFID Series consists of hybrid solutions to scan both UHF RFID tags and printed barcodes, supporting businesses that utilize any identification technology. The product is to be used in different industries, such as Retail, T&L, Manufacturing, and Healthcare, improving productivity and inventory visibility thanks to the benefits of RFID technology.

## ULTRA-RUGGED WITH BALANCED ERGONOMICS

With an ultra-rugged design, the PowerScan 9600 family is built to survive the harshest environmental conditions. To lessen operator stress during daily tasks, the PowerScan 9600 imagers feature an ergonomic shape and a well-balanced weight.

## WIRELESS CHARGING

The PowerScan 9600 RFID series include Datalogic's Wireless Charging technology. Based on inductive-charging technology, Datalogic's Wireless Charging System eliminates battery connections and pins, which are frequently dirty, deformed, or broken over time, removing a critical point of failure for devices used in industrial and retail applications.

## EASY SYSTEM INTEGRATION

The BC9600 base/charger has a modular design and is available with multiple interface plug-ins for standard and industrial communications such as RS-232, USB, Standard Ethernet and Industrial Ethernet protocols.

## FEATURES

- UHF RFID tags reading and writing capabilities, in addition to scanning of 1D, stacked, 2D codes, postal codes, OCR, and image capture
- Cordless model with Bluetooth 5.0 connectivity
- Water and Particulate Sealing Rating: IP65 and IP67; Cradle IP65; 10 million hits trigger
- Center of gravity design
- Modular cradle design allowing interface expansion
- Datalogic's 3GL™ (3 Green Lights) technology and loud beeper for good-read feedback
- Datalogic's Motionix™ motion-sensing technology
- Wireless Charging reducing total cost of ownership
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

## INDUSTRIES - APPLICATIONS

### Retail

- Checkout
- Self-checkout
- Inventory Management

### T&L

- Receiving/Picking
- Inbound/Outbound
- Order Fulfilment
- Warehousing

### Manufacturing

- Work in Progress (WIP)
- Traceability
- Quality Control

### Healthcare

- Inventory Management
- Traceability
- Validation



POWERSCAN 9600 RFID SERIES

TECHNICAL SPECIFICATIONS

| WIRELESS COMMUNICATIONS        |                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Powerscan PBT9600 RFID         | Bluetooth Wireless Technology<br>Radio Frequency: 2.4 GHz; Profiles: SPP (Serial Port Profile) and HID (Human Interface Device); Protocol: Bluetooth 5.0 Certified. Class 1, Class 2 and Class 3; Radio Range (Open Air): 100.0 m / 328.0 ft; Range distances are measured using the base station. Data Rate: 3 Mbit/s (2.1 Mbit/s).<br>Security: Data Encryption; Scanner Authentication |
| RFID                           |                                                                                                                                                                                                                                                                                                                                                                                           |
| Standard                       | EPC UHF Class 1 Gen 2 (ISO 18000-6C)                                                                                                                                                                                                                                                                                                                                                      |
| Frequency                      | US: 902 MHz to 928 MHz<br>EU: 865 MHz to 868 MHz                                                                                                                                                                                                                                                                                                                                          |
| Modulation                     | ASK                                                                                                                                                                                                                                                                                                                                                                                       |
| Power                          | Max 20dBm (configurable)                                                                                                                                                                                                                                                                                                                                                                  |
| Reading Range                  | Up to 1 m / 3.2 ft (linear)                                                                                                                                                                                                                                                                                                                                                               |
| DECODING CAPABILITY            |                                                                                                                                                                                                                                                                                                                                                                                           |
| 1D / Linear Codes              | Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.                                                                                                                                                                                                                                                                                                             |
| 2D Codes                       | Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code; Dot Code                                                                                                                                                                                                                                                                                                   |
| Postal Codes                   | Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)                                                                                                                                                                                                                                                                   |
| Stacked Codes                  | EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites                                                                                                                                                                                                     |
| Digital Watermarking           | Digimarc Barcodes                                                                                                                                                                                                                                                                                                                                                                         |
| ELECTRICAL                     |                                                                                                                                                                                                                                                                                                                                                                                           |
| Current                        | Max operating current 1400 mA@ 3.7 V. Charging (Typical) < 15 W. Cradle BC96xx only: 150 mA @ 5 V (Operative)                                                                                                                                                                                                                                                                             |
| Input Voltage                  | Host powered: 5V DC ± 5% or 10 - 30 VDC<br>External power supply: 10 - 30 VDC ± 5%                                                                                                                                                                                                                                                                                                        |
| Battery                        | Battery Type: Lithium-Ion: 3350 mAh<br>Charge time @ 12 VDC: 2.5 hours to charge up to 95%, 3.2 hours to charge 100%, External Power.<br>Barcode reads per charge: up to 80,000<br>RFID only reads per charge: up to 40,000                                                                                                                                                               |
| ENVIRONMENTAL                  |                                                                                                                                                                                                                                                                                                                                                                                           |
| Ambient Light                  | 0 - 100,000 lux                                                                                                                                                                                                                                                                                                                                                                           |
| Drop Resistance                | Withstands 50 drops from 2.5 m / 8.2 ft @ 20 °C / 68 °F; Withstands 50 drops from 2.0 m / 6.6 ft @ -20 °C / -4 °                                                                                                                                                                                                                                                                          |
| Trigger Resistance             | Withstands 10 million hits                                                                                                                                                                                                                                                                                                                                                                |
| ESD Protection (Air Discharge) | 20 kV                                                                                                                                                                                                                                                                                                                                                                                     |
| Humidity (Non-Condensing)      | 0 - 95%                                                                                                                                                                                                                                                                                                                                                                                   |
| Particulate and Water Sealing  | IP67 and IP65; Cradle IP65 (specific models)                                                                                                                                                                                                                                                                                                                                              |
| Temperature                    | Operating: -20 to 50 °C / -4 to 122 °F<br>Storage/Transport: -40 to 70 °C / -40 to 158 °F<br>Charging: 0 to 40 °C / 32 to 104 °F nominal; 0 to 35 °C / 32 to 95 °F ideal                                                                                                                                                                                                                  |
| INTERFACES                     |                                                                                                                                                                                                                                                                                                                                                                                           |
| Interfaces                     | RS-232 / USB / Ethernet and Industrial Protocols                                                                                                                                                                                                                                                                                                                                          |

| PHYSICAL CHARACTERISTICS       |                                                                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Colors Available               | Black and Blue                                                                                                                                                        |
| Dimensions H x L x W           | 19.8 x 15.0 x 7.9 cm / 7.8 x 5.9 x 3.1 in                                                                                                                             |
| Display                        | PBT9600-DKDCRF: 1.8" OLED graphic display; Font Dimensions: User selectable.                                                                                          |
| Keyboard                       | PBT9600-DKDCRF: 16 Keys; Configurable                                                                                                                                 |
| Weight                         | PBT9600-SRRF: 415 g / 14.6 oz,<br>PBT9600-DKDCRF: 455 g / 16.0 oz                                                                                                     |
| BARCODES READING PERFORMANCE   |                                                                                                                                                                       |
| Imager Sensor                  | SR (PBT9600-SRRF): 1280 x 800 pixels<br>DC (PBT9600-DKDCRF): dual 1280 x 800 pixels, with color sensor                                                                |
| Light Source                   | Aiming: 630 - 680 nm VLD<br>Illumination: White LED reading light                                                                                                     |
| Print Contrast Ratio (Minimum) | 15%                                                                                                                                                                   |
| Reading Angle                  | Pitch: +/- 52°; Roll (Tilt): 360°; Skew (Yaw): +/- 52°                                                                                                                |
| Field of View                  | 38° H, 24° V                                                                                                                                                          |
| Reading Indicators             | Beeper (Adjustable Tone and Volume); Datalogic's 3GL™ (Three Green Lights) technology for good-read feedback; Datalogic 'Green Spot'; Dual Good Read LEDs; Vibration. |
| Resolution (Maximum)           | 1D Codes: 3 mil; 2D Codes: 6 mil                                                                                                                                      |
| READING RANGES                 |                                                                                                                                                                       |
| Typical Depth of Field         | Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.                                              |

|                                                 |
|-------------------------------------------------|
| Code 128                                        |
| 5 mils: 6.4 to 30.9 cm / 2.5 to 12.2 in         |
| 20 mils: 4 to 103.7 cm / 1.6 to 40.8 in         |
| 40 mils: 5.5 to 175 cm / 2.2 to 68.9 in         |
| EAN/UPC 13 mils: 4 to 67.5 cm / 1.5 to 26.5 in  |
| DataMatrix 10 mils: 6 to 30 cm / 2.5 to 11.8 in |

| SAFETY & REGULATORY                  |                                                                                                                                                                                         |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Approvals (US/ Canada and EU) | The product meets necessary safety and regulatory approvals for its intended use.<br>The Regulatory Addendum for this product can be referred to for a complete list of certifications. |
| Environmental Compliance             | Complies to EU RoHS; Complies to R.E.A.C.H.                                                                                                                                             |
| Laser Classification                 | Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825 Class 2                                                                                                       |
| LED Classification                   | IEC 62471 LED Class: Exempt                                                                                                                                                             |
| UTILITIES                            |                                                                                                                                                                                         |
| Datalogic Aladdin™                   | Datalogic Aladdin configuration program is available for download at no charge.                                                                                                         |
| OPOS / JavaPOS                       | OPOS and JavaPOS Utilities are available for download at no charge.                                                                                                                     |

| WARRANTY |                         |
|----------|-------------------------|
| Warranty | 3-Year Factory Warranty |

ACCESSORIES

| Base Stations / Chargers                                                                                                                                                                                                                                | Battery                                                                             | Multi-Battery Charger                                                                                                        | Holder                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                                                                                      |  |                                           |  |
| BC9620 Base station/charger USB only<br>BC9630 Base station/charger Multi-Interface<br>BC9631 Base station/charger Multi-Interface, IP65<br>BC9680 Base station/charger Ethernet/Profinet<br>BC9681 Base station/charger Ethernet/Profinet/ETH IP, IP65 | RBP-PM96 Removable battery                                                          | MC-P096-M2 Multi Battery Charger 2 slots<br>MC-P096-M4 Multi Battery Charger 4 slots<br>MC-P096-E2 Extension modules 2 slots | HLD-P096 Desk/Wall Holder (HLD-9600)                                                  |

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