

RLe Series rugged label printers

product guide for resellers ■ ■ ■



datamax·o'neil
by Honeywell

do datamax o'neil
RL4e



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About Datamax-O'Neil

Datamax-O'Neil is a global provider of premier stationary and portable thermal printers, and quality supplies and parts to assure optimum performance.



For nearly four decades, we've worked closely with our customers to develop solutions that improve their businesses. With an unwavering commitment to unparalleled customer care, Datamax-O'Neil is headquartered in Orlando, FL, and maintains key facilities in California, Illinois and France, as well as sales, service, technical support and channel partner offices around the world. Since 1977, Datamax-O'Neil has earned a reputation for consistent reliability, fueled by dependable printers, dependable people and high-quality printer supplies.

Product Introduction

Datamax-O'Neil introduces its new RL3e / RL4e Portal Printers, enhanced with new features to better meet today's fast-paced and operational challenges of the retail, manufacturing and transportation and logistics environments. These 3- and 4-inch ultra-rugged and durable printers incorporate high-performance features that improve productivity and make work easier: faster speeds, more memory, longer battery life, and the tremendously easy ability to integrate, use and maintain. Technology advances include:

- Enhanced wireless functionality with 802.11 A/B/G/N
- Bluetooth 4.0+LE Dual mode and TDMA WiFi/Bluetooth co-existence
- Full suite of printer language emulation support
- Remote management software
- Android and Windows based O/S compatibility

With improved design and technology, the RLe Series models are the perfect printers to improve customer service and enhance operational efficiencies, especially in demanding environments.

Rugged/Reliable

■ Setting the Standard

Choosing the right printer is critical to the success of any application. For harsh warehouse environments you need a printer that's reliable and rugged enough to absorb every day knocks and bumps and still print clear, accurate labels the first time - every time. We test our printers in the most punishing environments to ensure their long-term reliability. The RLe Series was tested using military MIL-STD 810F procedures, requiring the printer to operate after being dropped on all corners, edges and faces for a total of 26 consecutive times. The RLe series represents one of a select few portable label printers to pass the MIL-STD 810F test from a height of 6 feet (1.8m) onto solid concrete at extreme cold and hot temperatures.



Introduction ■ ■ ■

■ ROI of Ruggedness

When comparing printers and calculating their total cost, it is important to include the cost associated with supporting products that are not designed for use in rugged environments. These include purchasing extended warranties, costs to support a larger spare printer pool, loss of productivity, shipping and handling, and cost of IT support to reinstall repaired units back into the field.

Easy

■ Easy to Use

Nobody likes to reload media, but we've made it so easy you can do it with one hand. We've also included an easy-to-read LCD screen with a simple user interface menu, buttons that are easy to use and a peel and present mechanism for quicker label application. These features are not just easy to use but also mean less downtime and higher productivity.



■ Easy to Deploy and Integrate

The RLe Series comes standard with popular language emulations that allow you to easily replace existing printers in the workplace. The printer is also compatible with most popular Operating Systems and Device Management tools while offering optional wireless 802.11 and Bluetooth connectivity.

■ Versatile and Customizable

Every application is different, so having the right accessory can be critical to maximizing productivity. The RLe Series can be worn on the hip, slung over the shoulder or mounted to a vehicle. The RLe series also has outstanding battery capacity with the RL3e capable of printing close to 850 labels and lasting 28 hours on a single charge. Likewise, the RL4e is capable of printing over 320 labels over a 16-hour period on a single charge. The printer can also be mounted on a fork truck and conveniently charged with existing DC power. The RLe Series offers enough charging, mounting and connectivity options to fit any environment.

Long-Lasting Value

■ Affordability and Low Ownership Costs

The RLe series is the most rugged and reliable portable label printer on the market. The RLe is competitively priced and in many cases at an MSRP price point below the competition. Datamax-O'Neil-designed media and battery packs are affordably priced with a complete set of qualified device management tools. The RLe series is not only affordable to purchase, its rugged design and enduring reliability will save money in unexpected repair and replacement costs.



■ 2-Year Warranty

We're so confident in the quality and long-term reliability of the RLe Series that we include a 2-year warranty free of charge on our portable label printers. Coverage includes the case, electronics, plus all components except the printhead, batteries and accessories.

Why a portable barcode label printer?

A typical manufacturer's receiving dock is very much like any receiving dock in logistics, distribution and parcel forwarding applications. While they have all been customized to handle different volumes of packages, all applications generally require that an incoming package is received, identified and moved onto the next point of distribution or use. Receiving is generally automated with a scanner or imager, entering material into inventory in the MRP system. These materials are then identified and marked with a location where they will be temporarily stored or consumed in the manufacturing process.

In a typical environment that does not use portable bar-code label printing, the worker on the receiving dock has to scan the incoming package or pallet, sometimes break down the pallet, and then ask the MRP system to generate labels to identify the packages or pallets. At that time, the dock worker has to take time to go to the printer, pick up the labels and bring them back to the packages that are ready for storage or consumption. This time that the worker spends walking around is non-value-added activity (something that is called "Muda" by many lean manufacturing experts), and any number of distractions can get in the worker's way before the labeling is complete. These opportunities for distractions not only waste more time, but they can cause the wrong label to go onto the wrong package. The cost of mislabeling includes lost or redundant inventory, labor costs to track and correct packages that have been moved to the wrong location, and reduced customer satisfaction.

The wasted time of the operator, and the increased chances of mislabeling can easily cost any large or mid-sized company tens of thousands of dollars each year. You can see that your customers can easily pay for the investment of implementing a portable labeling solution, especially one that is designed to stand up to these tough applications, in less than a year. When you add the confidence that comes with implementing an RL4e, which is the only truly ultra-rugged portable printing solution, the only portable bar-code label printer with a two-year factory warranty, your customers' question goes from "If...?", to "How many do I need and how soon can I get them?".

Combining Two Superior Core Competencies

Datamax-O'Neil has an unequalled reputation for designing **ultra rugged portable receipt printers**; however these products are targeted toward commercial and consumer delivery applications. Datamax-O'Neil also has a long history in producing **stationary label printers**, whose primary applications are to identify products and



freight within manufacturing, distribution and other transportation industries. You know that the physical and data ecosystems in portable receipt printing and stationary barcode labeling environments are quite different, but now these two core strengths are combined to help traditional stationary bar code printer customers become more efficient with an ultra rugged portable bar code label printer.

The RLe Series uniquely address the needs of the market by exceeding their competition's capabilities to endure the rough physical treatment expected in these user environments. Surpassing anything available on the market, the RLe Series prints reliably even after a series of 26 grueling drops at a variety of extreme temperatures! The "know how" that can only come from years of barcode label printer integration experience also positions the RLe Series for easy integration into automated data acquisition and printing systems.

Partner Benefits

Your success is important to us. When designing a new printer, we keep the needs of you, our Partners, in mind and incorporate features and elements that provide you with a competitive edge, or make your job easier and more profitable. Here are some of those benefits.



■ **Costs You Less**

When you pay less for the printer you have more room to negotiate when you're in a tough, price-based negotiation. The RLe Series costs you less, but is more rugged and offers more features.

■ **Free 2-year Warranty**

Our 2-year warranty gives you a competitive edge plus we offer a full array of service options for those customers who want even more coverage. Zebra only offers 1 year on the printer and 6 months on the printhead!

■ **Easy Integration**

The RLe Series will keep your integration costs to a minimum, and keep your customers happy. We offer a range of emulations that are unmatched. Auto-detect DPL, ZPL II,[™] CPCL, IPL,[®] XML, EZ Print and line command languages are where we start. We continue by having compatibility with many of today's most popular ERP systems. The RLe Series stores forms from SAP, drops into XML environments for Oracle, and passes compatibility testing with Manhattan Associates software.

■ **Easy Configuration**

We're here to help. Having access to the global Datamax-O'Neil technical support network gives you a very experienced team of technicians ready to guide you through unique label printing applications. NETira[™] CT is a easy to navigate configuration tool that was created for the RL Series Printers, and will continue to be rolled out across the entire Datamax-O'Neil line of stationary and portable printers.

■ **Datamax-O'Neil Reliability**

Reduce your customer complaint calls. You know your customers will be happy with the quality and reliability of a printer from Datamax-O'Neil.

■ **Increase Your Total Sale**

Customers expect you to provide a complete solution including all the accessories and supplies. The RL3e / RL4e Portal Printers offer a full selection of cables, chargers, carrying and mounting options that are tested and guaranteed to work with the printer. Datamax-O'Neil also manufactures its own line of competitively-priced, certified media and printer supplies. Selling supplies and media are an easy way to boost your bottom line.

Applications for the RLe Series

These are just a few of the most typical applications where the RLe Series has excelled in pre-release field tests. While you may find many other useful applications for this ultra-rugged printer, the RLe Series has already proven itself to be a cost saving solution in the following environments:

Warehousing & Distribution

■ Receiving and Location Labels

When items are received, if they cannot be immediately used on an assembly line, they have to be assigned to a location in the warehouse. Part numbers, quantities, vendors, stocking locations, date codes and lot numbers are just a few of the bits of information that have to be readily available and clear so that the manufacturing process can move forward in an error free and efficient manner. When the label that identifies this information needs to be put on, the dock operator has to unload the pallet, and then travel to a printer that is located at the end of the loading dock. This is a waste of the operator's time. The operator has to go back and forth, pick up the label, put the label on, and then take the item back to the warehouse. On the other hand, in this environment, **if the operator is wearing the printer or the printer is attached to a forklift, then the operator can print labels as soon as items have been identified on the pallet – as soon as the pallet is touched. The operator spends less time going back and forth to the stationary printer, and efficiency is increased.**



The perfect opportunity to reduce errors is when an operator first touches the pallet. Any one of a million things can happen on a loading dock. When stock is pulled off the truck and the worker goes to the printer to pick up a label, he or she may run into a buddy and chat about weekend football or what happened at a child's birthday party; or, a call may come in to do something else that's work related. Any of these distractions can lead to labeling errors. If this occurs, items may go to the wrong place in the warehouse, or – worse – outbound items may get shipped to the wrong destination. **Mobile printing greatly reduces the likelihood of such errors and their associated costs, which can drive costs up by 15%.**

Put simply, warehouse operations are intrinsically labor-intensive, which often leads to errors and inefficiencies. **By empowering printing at the point-of-use, mobile printers speed time to completion and improve compliance.** This change can significantly improve most typical warehouse processes.

■ Work in Process (WIP, or Put-Away) Labels

Inherent delays in the fixed-printer model – routing to and from the printer, time spent at the printer per se – have had a negative effect on put-away. **Using mobile printers within integrated environments that include mobile printers, wireless networks, and shared databases can significantly increase efficiency over an architecture that utilizes stationary devices located near, but not at the point where the work actually happens.** Specifically, an integrated system empowers personnel to initiate label requests by entering data into a handheld computer that transmits the data to the company's ERP system over a wireless LAN. After the ERP system receives the transmission and updates inventory, information required to create the appropriate label or labels is sent back to the handheld for mobile printing.



■ Picking Applications

Since picking is essentially the opposite of put away, mobile printers can provide this function with similar time and cost savings. **By enabling operators to pick multiple orders simultaneously and within a very small footprint, mobile printers drive down empty transit time and drive up productivity.** The printers are used to create barcode or RFID labels for each individual item; these are subsequently scanned to speed the sorting of items for shipment.

■ Shipping Labels

When a manufacturing process is finished, personnel can use the mobile printer to create a label for the finished goods; or, warehouses and distribution centers can use mobile printers to manage ship-to-order requirements. Workers can use labels and scanning to verify the pick/pack of all items necessary to complete an order, eliminating the need to identify and label final assemblies.

The processing of ship-to-order requests can be improved by labeling items with an order code to associate them with a specific customer during picking or packing. When the order finishes, a mobile printer creates the shipping label, ensuring accuracy in packing and shipping.



Retail

In many retail environments, workers travel to and from a central location to pick up “batch printed” labels and shelf tags. While this method works, it also creates wasted movement and potential labeling errors. **The RLe Series eliminates the danger of “label mix up” by printing labels at the point of application.** And, since workers aren’t wasting time traveling to a central location, retail applications are far more efficient and productive.



Transportation & Logistics and Parcel Delivery



■ Cross-docking Location Indicator Labels

By minimizing steps for personnel, mobile printing optimizes the cross-docking procedures used at a trans-shipment point to save time and labor in moving goods from an inbound vehicle to an outbound vehicle. Staff equipped with mobile devices can receive inbound shipments, log them into the warehouse management or inventory control systems with a mobile computer or handheld device, and then use a mobile printer to create labels with the appropriate cross-docking information. Doing this at the point of use speeds the process while improving accuracy.

Printer Tour ■■■



Accessories

The RLe Series comes complete with many of the accessories needed to make installations go smoothly, especially environments already served by portable printers. The following items have been designed or specified by the same team that brought you our ultra-rugged printer, so you can be assured that the accessories will work right the first time. Like the printer that was specified to endure, they will stand the test of extreme use in abusive environments.



Included with each RLe Series printer: (1) battery and (1) swivel belt clip
required ■ ■ ■

AC Adapter	AC Adapter available with US, UK, Australian, Swiss or Euro plugs (sold separately)
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recommended ■ ■ ■

Serial Cables	DB9 F cables for connecting to a laptop or desktop computer
USB Cable	USB download cable (mini B to USB-A)
Cleaning Cards & Kits	Use of cleaning cards is recommended to extend the life of the printhead (visit www.datamax-oneil.com/supplies for more information)

optional ■ ■ ■

RAM Mount™ Compatible Adapter	Keeps the printer secure yet easily accessible on a forklift. Includes adapter plate and 1-1/2" ball. Other parts are available from RAM Mount.
Voltage Converter	12-60V DC/DC power adapter
Multiple Unit Charging Adapter	Allows you to charge (4) RLe Series printers or (4) 2 bay battery chargers at once, requires a high capacity AC Adapter (included). Available in US, UK and Euro Plugs.
Spare Battery	Lithium-Ion, 14.8V, 2200 mAh
Double Bay Battery Charger	2-bay battery charger keeps additional batteries charged and ready for use
Multi-Bay RLe Charger	Configurable charging station capable of charging multiple units or combination of units and batteries. (Cables and high capacity charger included).
Vehicle Power Cable Kit, 10'	Charge your printer from a vehicle's fuse box Extension cables available in 3', 6', and 10' lengths for existing installations
IP54 Soft Case	Protects your printer from environmental elements such as dust and moisture; meets IP54 test standards
Cigarette Lighter Adapter	Allows you to charge the printer from the vehicle cigarette lighter. (Either 12v or 24v input models available).
Swivel Mount Belt Loop	Velcro loop fastens comfortably and securely around the belt; keeps the printer secure yet swivels for comfort while bending over or getting in and out of vehicles
Hand Strap & Shoulder Strap	Choose either a hand or shoulder strap for maximum comfort and flexibility

Features and Benefits: Retailers, Manufacturers, Distributors

The RLe Series is ready to add value to manufacturers and distributors by improving the way they identify and move goods and packages within their organization and as they receive from and ship to others. Here's how:

■ Rugged and Reliable

With uncompromising standards, the RLe Series endures even the most punishing environments, and passes the MIL-STD 810F series of drop testing requirements. The RLe Series continues to print reliably after 26 consecutive drops from 6 foot./1.8m to concrete, even at extreme temperature conditions.

■ Complete Line of Accessories

The RLe Series comes complete with many different ways to charge the printer or its batteries. Mounting accessories make physical integration onto fork trucks and vehicles easy, and for maximum flexibility, we offer four options for wearing the printer.

■ Easy to Integrate

The printers are embedded with many mature language emulators, offering “drop-in” compatibility with DPL, ZPL II,[™] CPCL, IPL[®] and XML. The product is also “ready-to-go” into the most popular WMS

■ Great Battery Power

The RLe Series has one 2250 mA-h Lithium-Ion rechargeable battery. And, because it runs at 14.8 Volts, the RL4e is able to continuously operate for over 16 hours in a Wi-Fi application while printing 320 (4'x6" 100mm x 150mm) labels. The RL3e will print over 850 3"x1" (76.2 x 25.4 mm) labels when operating eight continuous hours.

■ Easy to Use

The LCD tells operators just what they need to know. The printer's large capacity media holder can be easily reloaded with one hand in just seconds.

■ Complete Line of Media and Supplies

Our Certified Label Supplies ensure optimum, trouble-free performance from the RLe Series and guarantees the highest quality print output and image stability.

■ Two-Year Warranty

The RLe Series comes with the industry's only two-year standard warranty – twice that of the competition!

Product Specifications ■ ■ ■

physical characteristics ■ ■ ■

- Dimensions:
 - **RL3e:** 5.6" w x 7.6" h x 3.2" d (142 x 193 x 81 mm)
 - **RL4e:** 6.5" w x 7.9" h x 3.2" d (166 x 200 x 81 mm)
- Weight (printer only):
 - **RL3e:** 1.95 lb. (0.88 kg)
 - **RL4e:** 2.16 lb. (0.98 kg)
- Drop specifications:
 - 6 ft. (1.8 m)
- User interface:
 - 128x64 LCD display with white LED backlighting
 - Four (4) button user interface

user environment ■ ■ ■

- Operating temperature:
 - 4° to 122°F (-20° to 50°C)
- Storage temperatures:
 - 40° to 140°F (-40° to 60°C)
- Charging temperatures:
 - 41° to 104°F (5° to 40°C)
- Relative humidity range:
 - 10% RH to 90% RH non-condensing
- ESD protection:
 - 8kV Air/ 4kV Contact

print technology ■ ■ ■

- Printhead:
 - Direct thermal
 - 203 dots per inch (8 dots per mm)
- Print width:
 - **RL3e:** 2.8" (72 mm)
 - **RL4e:** 4.125" (105 mm)
- Print mechanism speed:
 - Upt to 4" per second (102 mm per second)¹

memory ■ ■ ■

- 64MB RAM / 128MB Flash

media ■ ■ ■

- Media type:
 - **RL3e:** 1.00"– 3.125" (26 – 79 mm)
 - **RL4e:** 2.00"– 4.12" (51 – 105 mm)
 - Lined and linerless* labels with black mark or gap sensing
 - External fanfold or roll supply
- Maximum roll capacity:
 - 2.65" (67 mm) O.D.
 - 0.75" (19 mm) I.D. core
- Media thickness:
 - 2 mil to 6.5 mil
- For optimum print quality and printer performance, use Certified Datamax-O'Neil supplies.

*for use in RL Series printers equipped with linerless option only

communication ■ ■ ■

- Serial:
 - RS232, up to 460.8 kbps
- USB:
 - 2.0 (full speed-12 mbps)

- Bluetooth®:
 - Bluetooth® 4.0 + LE Dual Radio Mode (Q2 2015)
 - Serial port profile
- Security Modes 1-4
- Encryption 1-3e
- Bluetooth® Smart Ready
- 802.11 a/b/g/n Option:
 - Network standard: IEEE 802.11 a/b/g/n and Bluetooth® with Dual Mode Radio
 - Wireless access modes: Infrastructure and ad-hoc
 - Security Protocols:

	WEP	WPA	WPA2
Modes		PSK/Enterprise	
Security/Encryption	64/128	TKIP/RC4	CCMP/AES
Authentication	LEAP, EAP-PEAP, EAP-FAST, EAP-TTLS, EAP-LEAP		

- Internet Protocols Supported: UDP/TCP, DHCP, BootP, FTP, FTPS, SFTP, TFTP, Telnet, LDP, SNMP
- Remote and Auto Update features Supported
- 802.11i

power source ■ ■ ■

- Battery:
 - 14.8V Lithium-ion, 2200 mAh (33 W-h)
- DC inputs:
 - External DC jack, 11-15V, built-in spike and surge protection with Battery Management
 - External charge contacts, 11-15V, built-in spike and surge protection
- Recharging: 4 - 6 hours
- **RL4e** Endurance: Prints over 320 4"x6" (100x150mm) labels when operating 16 continuous hours on an 802.11 network
- **RL3e** Endurance: Prints over 850 3"x1" labels (76x152mm) when operating for 28 consecutive hours on an 802.11 network

agency approvals ■ ■ ■

- FCC 15 Class B, EN55022 Class B, EN55024, IEC 60950-1 2nd edition, EAC - Customs Union, CCC, SRRC
- Safety: UL/cUL, CE.
- Contact your sales representative for a complete list of approvals.

warranty ■ ■ ■

- Two years (including platen roller, printhead and installed options) when used with approved supplies
- Contact sales representative for extended warranty options

barcodes/fonts/graphics ■ ■ ■

- Scalable Fonts:
 - CG Triumvirate™ Bold Condensed, CG Triumvirate & CG Times with Cyrillic, Greek, Arabic and Hebrew character support from Monotype Imaging
- Standard fonts:
 - 5.5CPI, 7.2CPI, 10.2 CPI, 10.7CPI, 18.5CPI, 20.4CPI, 22.6CPI, 34.0CPI, OCR-A, OCR-B (additional fonts available)

- Downloadable font types:
 - True Type, Bitmap
- Character sets:
 - Unicode/UTF8 support; 50 international symbol sets, Big 5, JIS and Shift JIS and more
- Optional characters:
 - Arabic, Greek, Hebrew, Unicode subset including Latin
 - Asian (including Big 5, Simplified Chinese, Kanji, Hangul and Shift JIS); additional international characters available
- Barcodes:
 - Linear: Codabar, Code 3 of 9, Code 93, Code 128, EAN-8, EAN13, Interleaved 2 of 5, HIBC, PLESSEY, MSI/Plessey, UCC/EAN-128, UPC-A, UPC-E, UPC 2 and 5 digit addendums, Postnet, Telepen, UPS MaxiCode, FIM, USD-8
 - 2D Symbolologies: PDF417, Aztec, QR Code, GS1, Datamatrix, TLC39, MicroPDF417
- Graphics:
 - Supports storage of graphics/logos in Flash memory and transient "print once" graphic

software/firmware ■ ■ ■

- NETira™ Configuration Tool - complete printer set-up utility
- NETira™ MS - Menu Scripting
- Control Language Compatibility:
 - Ez-Print, DPL, ZPL II®, CPCL, IPL™, XML (limited)
- Device Management Compatibility:
 - NETira™ Remote Management: Monitor and manage printers
 - NETira MD: Mobile Device Management Utility for Smart Mobile Devices.
 - NETira™ Connector (CA): Access AirWatch® Mobile Device Management Console
 - Wavelink® Avalanche MC
- Network Compatibility
 - TCP-IP based networks
 - AS/400 (LPD) based networks
- Drivers:
 - Microsoft Windows® XP/Vista/7 & 8
 - NETira™ LD - Label Design Software
- Label Design Software Compatibility:
 - BarTender®, Niceware/NiceLabel and others
- ERP Systems Compatibility:
 - SAP, Oracle
- Software development kit:
 - Android 2.1 and above, iOS 5,6, & 7
 - Microsoft Windows Desktop up to Windows 8, Windows 8 Store, Windows Mobile & Windows CE
 - C++, C Sharp, Java, Active X Control

other tools ■ ■ ■

- Lua and JSON Scripting Language
- AirWatch® support

options ■ ■ ■

- Linerless
- Single Bay Charger for use with external charge contacts
- Dual Battery Charger
- Configurable Multi-Bay Charger
- Multi Unit Charging Adaptor
- Cigarette Ligher Vehicle Charger
- IP-54 Environmental Case

¹ Speed rating under normal optimal operating conditions. Performance may vary based on temperature of operating environment and label file density.

Datamax-O'Neil RL4e vs. Zebra QLN420

In comparison to the Zebra QLN-420, the RL4e offers important features and performance advantages:

- Wireless communications, Bluetooth 4.0 connectivity and customization of menus and programming for 4-button control with LCD screen lead an expanded feature set
- Higher-rated drop height for added security against unintentional printer drops
- Standard 2-year warranty coverage makes it one of the longest standard coverage periods in the industry



Datamax-O'Neil RL4e



Zebra QLN420

	Datamax-O'Neil RL4e	Zebra QLN420
Physical		
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.5" x 7.4" x 3.25" (165 x 187 x 83)
Weight (with Battery)	2.6 lbs. (1180 gms)	2.45 lbs. (1110 gms)
IP Rating	IP54 (with optional case)	IP54 (with optional case)
Drop Specification	6 ft (1.8m)	5 ft (1.5 m)
Communications		
Serial	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 a/b/g/n Dual Radio (Optional)
Bluetooth	4.0 (Optional)	3.0 (Optional)
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	4.12" (105 mm)	4.09" (104 mm)
Print Speed	4" (102mm) per second	4" (102mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.60" (66 mm) max roll diameter approx. 104 4"x6" labels per roll
ID Core	0.75" (19 mm)	0.75" (19 mm) or 1.38" (35 mm)
Width	2-4.12" (51-105 mm)	2-4.4" (51-112 mm)
Memory		
Flash	128MB	256MB
RAM	64MB	128MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Display 240 x 128
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	2-Button -Power, Media feed, plus 5 way nav soft keys
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Included
Capacity	14.8 V, 2200 mA-H (33 W-H)	7.4 V, 5.0 A-H
Warranty		
Printer	2 years	1 year
Printhead	2 years (when used with approved media)	6 months
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
4-Bay Printer Charger	Option - Configurable	Option
Battery	Included	Included
List Price w/802.11 radio and battery	\$1,395.00	\$1,470.00

Competitive Overview ■ ■ ■

Datamax-O'Neil RL4e vs. Intermec PB50

The RL4e provides major advantages over the Intermec PB50:

- Ruggedized ergonomic design with key enhanced features like 802.11 a/b/g/n dual radio, Bluetooth 4.0 LE, and expanded memory
- Higher rated drop height offers added security against unintentional printer drops
- Standard 2-year warranty coverage for one of the longest standard coverage periods in the industry



Datamax-O'Neil RL4e



Intermec PB50

Physical		
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.3" x 6.9" x 3.1" (160 x 174.5 x 78.8)
Weight (with Battery)	2.6 lbs. (1180 gms)	2.62 lbs. (1189 gms)
IP Rating	IP54 (with optional case)	IP54
Drop Specification	6 ft (1.8m)	5 ft (1.5 m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g (Optional)
Bluetooth	4.0 (Optional)	2.0 Class 1 (Optional)
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	4.12" (105 mm)	4.25" (108 mm)
Print Speed	4" (102mm) per second	4" (102mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.65" (67 mm) max roll diameter
ID Core	0.75" (19 mm)	0.75" (19 mm) / 0.4" (10.2mm)
Width	2-4.12" (51-105 mm)	2-4.4" (49-112 mm)
Memory		
Flash	128MB	16MB
RAM	64MB	64MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Display
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	4-Button - Standby, Media Feed, Setup, Info
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.8 V, 2200 mA-H (33 W-H)
Warranty		
Printer	2 years	1 year
Printhead	2 years (when used with approved media)	1 year
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
4-Bay Printer Charger	Option - Configurable	Not Available
Battery	Included	Sold Separately (\$150)
List Price w/802.11 radio and battery	\$1,395.00	\$1,450.00

Datamax-O'Neil RL4e vs. Sato MB400i

Equipped with major feature sets, the RL4e provides outstanding and performance value compared to the Sato MB400i:

- Standard features to meet today's user demands, including 802.11 a/b/g/n dual radio, Bluetooth 4.0 LE options along with a customizable 4 button control with LED backlit screen
- Expanded RAM and Flash memory for greater ability to load fonts, graphics and barcodes to the printer
- Higher rated drop height offers added security against unintentional printer drops



Datamax-O'Neil RL4e



Sato MB400i

	Datamax-O'Neil RL4e	Sato MB400i
Physical		
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.7" x 5.3" x 3.0", 8.0" x 6.5" x 3.9" with Rubber Boots (165 x 187 x 83)
Weight (with Battery)	2.6 lbs. (1180 gms)	2.0 lbs. (910 gms) with Rubber Boots
IP Rating	IP54 (with optional case)	Rating not listed
Drop Specification	6 ft (1.8m)	5 ft (1.5 m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g (Optional)
Bluetooth	4.0 (Optional)	1.1 (Optional)
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	4.12" (105 mm)	4.09" (104 mm)
Print Speed	4" (102mm) per second	4" (102mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.63" (67 mm) max roll diameter
ID Core	0.75" (19 mm)	0.75" (19mm), 1.0" (25 mm)
Width	2-4.12" (51-105 mm)	2-4.3" (50-111 mm)
Memory		
Flash	128MB	4MB
RAM	64MB	2MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Display
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	3-Button -Power, Media feed, Print
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.8 V, 1700 mA-H
Warranty		
Printer	2 years	1 year
Printhead	2 years (when used with approved media)	1 year
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
4-Bay Printer Charger	Option - Configurable	Not Available
Battery	Included	Included
List Price w/802.11 radio and battery	\$1,395.00	\$1,595.00

Competitive Overview ■ ■ ■

Datamax-O'Neil RL4e vs. Toshiba (TEC) B-EP4DL

The RL4e has some significant advantages over the Toshiba (TEC) B-EP4DL:

- 15% higher drop distance specification for greater durability under heavy use
- Backlit display standard
- Expanded RAM and Flash memory for greater ability to load fonts, graphics and barcodes to the printer
- 2-year warranty vs. 1-year printer and printhead warranty



Datamax-O'Neil RL4e



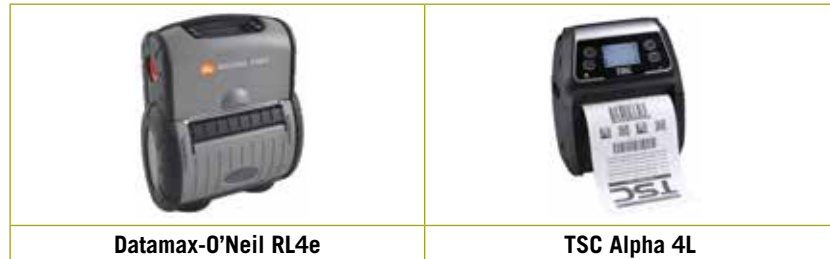
Toshiba (TEC) B-EP4DL

	Datamax-O'Neil RL4e	Toshiba (TEC) B-EP4DL
Physical		
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	5.7" x 5.9" x 3.0" (145 x 150 x 75)
Weight (with Battery)	2.6 lbs. (1180 gms)	1.9 lbs. (860 gms) with Rubber Boots
IP Rating	IP54 (with optional case)	IP54 (with optional case)
Drop Specification	6 ft (1.8m)	5.2 ft (1.6 m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g (Optional)
Bluetooth	4.0 (Optional)	2.1 Optional
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	4.12" (105 mm)	Not Listed
Print Speed	4" (102mm) per second	4" (105mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.68" (68 mm) max roll diameter
ID Core	0.75" (19 mm)	Not listed
Width	2-4.12" (51-105 mm)	4.53" (115mm)
Memory		
Flash	128MB	8MB
RAM	64MB	16MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Backlit Display (Wireless model Only)
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	2-Button -Power, Media feed, Pause with on-screen indicators
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.8 V, 2600 mA-H
Warranty		
Printer	2 years	1 year
Printhead	2 years (when used with approved media)	1 year
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
4-Bay Printer Charger	Option - Configurable	Not Available
Battery	Included	Included
List Price w/802.11 radio and battery	\$1,395.00	\$1,495.00

Datamax-O'Neil RL4e vs. TSC Alpha 4L

The RL4e excels over the TSC Alpha 4L in some very important areas:

- 20% higher drop distance specification for greater durability under heavy use
- Bluetooth 4.0 vs. Bluetooth 2.0 availability
- Optional 4-bay printer charger



Physical		
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.3" x 7.54" x 3.11" (160 x 191.6 x 79)
Weight (with Battery)	2.6 lbs. (1180 gms)	2.43 lbs. (1100 gms)
IP Rating	IP54 (with optional case)	IP54 (with optional case)
Drop Specification	6 ft (1.8m)	5.0 ft (1.5 m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g/n (Optional)
Bluetooth	4.0 (Optional)	2.1 Optional
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	4.12" (105 mm)	4.12" (104 mm)
Print Speed	4" (102mm) per second	4" (102mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.65" (67.3 mm) max roll diameter
ID Core	0.75" (19 mm)	0.5" to 1" (12.7-25.4mm)
Width	2-4.12" (51-105 mm)	2-4.4" (51-112 mm)
Memory		
Flash	128MB	16MB - Upgradeable 4GB via Micro SD
RAM	64MB	32MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Backlit Display 128 x 64 (Optional)
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	2 buttons (Power, Feed) & 6 LED indicators (Printer, Battery, Wireless status) OPTIONAL: 4 buttons & 2 LED indicators with LCD option.
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.8 V, 5800 mA-H
Warranty		
Printer	2 years	2 year
Printhead	2 years (when used with approved media)	1 year
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
4-Bay Printer Charger	Option - Configurable	Not Available
Battery	Included	Included
List Price w/802.11 radio and battery	\$1,395.00	\$1,345.00

Datamax-O'Neil RL4e vs. Brother RJ4030 / RJ4031

The RL4e provides important features compared to the Brother RJ4030 / RJ4031:

- Bluetooth 4.0 vs. Bluetooth 2.0 availability
- LCD backlit display
- 2.65" vs. 2.28" max roll diameter
- 128MB vs. 16MB flash memory for greater ability to load fonts, graphics and barcodes to the printer
- 26% higher battery capacity



Datamax-O'Neil RL4e



Brother RJ4030 / RJ4031

	Datamax-O'Neil RL4e	Brother RJ4030 / RJ4031
Physical		
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.38" x 6.93" x 3.03" (162 x 176 x 77)
Weight (with Battery)	2.6 lbs. (1180 gms)	1.87 lbs. (850 gms)
IP Rating	IP54 (with optional case)	IP54
Drop Specification	6 ft (1.8m)	6 ft (1.8m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g/n (Optional)
Bluetooth	4.0 (Optional)	2.0 Optional
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	4.12" (105 mm)	4.09" (104 mm)
Print Speed	4" (102mm) per second	5" per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.28" (58 mm) max roll diameter
ID Core	0.75" (19 mm)	Not listed
Width	2-4.12" (51-105 mm)	2-4.64" (51-118 mm)
Memory		
Flash	128MB	16MB
RAM	64MB	32MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	Not Available
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	3-Button -Power, Media feed, with 4 LEDs
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.4 V 1800 mA-H
Warranty		
Printer	2 years	2 year
Printhead	2 years (when used with approved media)	2 year
Options		
Magnetic Card Reader	Not Available	Optional
Linerless	Option	Not Available
Battery	Included	Sold Separately
4-Bay Printer Charger	Option - Configurable	Not Available
List Price w/802.11 radio and battery	\$1,395.00	\$1,095.00

Datamax-O'Neil RL4e vs. Printronix ML4

Here are some of the advantages of the RL4e over the Printronix ML4:

- 20% higher drop distance specification for greater durability under heavy use
- Bluetooth 4.0 vs. Bluetooth 2.1 availability
- 128MB vs. 16MB flash memory standard for greater ability to load fonts, graphics and barcodes to the printer
- 2-year warranty vs. 1-year printer and printhead warranty



Datamax-O'Neil RL4e



Printronix ML4

	Datamax-O'Neil RL4e	Printronix ML4
Physical		
Dimensions (mm)	6.5" x 7.9" x 3.2" (166 x 200 x 81)	6.3" x 7.54" x 3.11" (160 x 191.6 x 79)
Weight (with Battery)	2.6 lbs. (1180 gms)	2.43 lbs. (1100 gms)
IP Rating	IP54 (with optional case)	IP54 (with optional case)
Drop Specification	6 ft (1.8m)	5.0 ft (1.5 m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g/n (Optional)
Bluetooth	4.0 (Optional)	2.1 Optional
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	4.12" (105 mm)	4.12" (104 mm)
Print Speed	4" (102mm) per second	4" (102mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 4" x 6" labels per roll	2.65" (67.3 mm) max roll diameter
ID Core	0.75" (19 mm)	0.5" to 1" (12.7-25.4mm)
Width	2-4.12" (51-105 mm)	2-4.4" (51-112 mm)
Memory		
Flash	128MB	16MB - Upgradeable 4GB via Micro SD
RAM	64MB	32MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Backlit Display 256 x 128
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	4 buttons (Power, Feed, Menu, Info) & 2 LED indicators (Power, Error) w/ On-Screen indicators
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.8 V, 5800 mA-H
Warranty		
Printer	2 years	1 year
Printhead	2 years (when used with approved media)	1 year
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
4-Bay Printer Charger	Option - Configurable	Not Available
List Price w/802.11 radio and battery	\$1,295.00	Not readily available for purchase

Datamax-O'Neil RL3e vs. Zebra QLN320

The RL3e provides significant advantages over the Zebra QLN 320:

- 20% higher drop distance specification for greater durability under heavy use
- 2-year warranty vs. 1-year printer warranty
- 2-year warranty vs. 6-month printhead warranty
- 80% higher battery capacity
- Optional 4-bay printer charger



Datamax-O'Neil RL3e



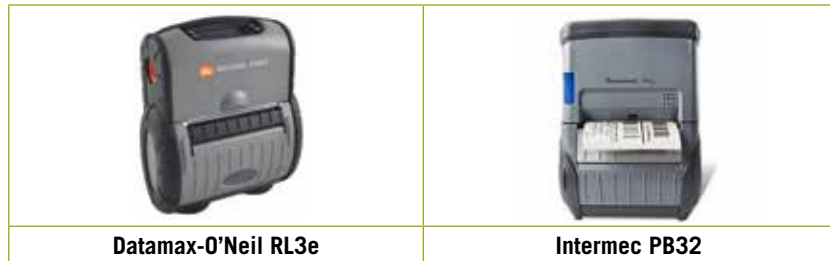
Zebra QLN320

Physical		
Dimensions (mm)	5.6" x 7.6" x 3.2" (142 x 193 x 81)"	4.6" x 6.8" x 3.3" (117 x 173 x 84)
Weight (with Battery)	2.4 lbs. (1089 gms)	1.6 lbs. (720 gms)
IP Rating	IP54 (with optional case)	IP54 (with optional case)
Drop Specification	6 ft (1.8m)	5 ft (1.5 m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 a/b/g/n Dual Radio (Optional)
Bluetooth	4.0 (Optional)	3.0 (Optional)
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	2.8" (72 mm)	2.9" (72 mm)
Print Speed	4" (102mm) per second	4" (100mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 3" x 6" labels per roll	2.60" (66 mm) max roll diameter - approx. 104 4"x 6" labels per roll
ID Core	0.75" (19 mm)	0.75" (19 mm) or 1.38" (35 mm)
Width	1-3.12" (26-79 mm)	1-3.12" (25-79 mm)
Memory		
Flash	128MB	256MB
RAM	64MB	128MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Display 240 x 128
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	2-Button -Power, Media feed, plus 5 way nav soft keys
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Included
Capacity	14.8 V, 2200 mA-H (33 W-H)	7.4 V, 2450 mA-H (18.1 W-H)
Warranty		
Printer	2 years	1 year
Printhead	2 years (when used with approved media)	6 months
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
4-Bay Printer Charger	Option - Configurable	Option
Battery	Included	Included
List Price w/802.11 radio and battery	\$1,295.00	\$1,370.00

Datamax-O'Neil RL3e vs. Intermec PB32

Compared to the Intermec PB32, the RL3e has important features and performance advantages:

- 20% higher drop distance specification for greater durability under heavy use
- 46% wider print width
- 128MB vs. 16MB flash memory standard for greater ability to load fonts, graphics and barcodes to the printer
- 2-year warranty vs. 1-year warranty for both printer and printhead
- 91% higher battery capacity
- Optional 4-bay printer charger



Physical		
Dimensions (mm)	5.6" x 7.6" x 3.2" (142 x 193 x 81)"	5.0" x 7.2" x 3.2" (127 x 182 x 81)
Weight (with Battery)	2.4 lbs. (1089 gms)	1.83 lbs. (828 gms)
IP Rating	IP54 (with optional case)	IP54
Drop Specification	6 ft (1.8m)	5 ft (1.5 m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g (Optional)
Bluetooth	4.0 (Optional)	2.0 Class 1 (Optional)
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	2.8" (72 mm)	2.8" (72 mm)
Print Speed	4" (102mm) per second	4" (102mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 3" x 6" labels per roll	2.65" (67 mm) max roll diameter
ID Core	0.75" (19 mm)	0.75" (19 mm) / 0.4" (10.2mm)
Width	1-3.12" (26-79 mm)	1.2-3.3" (48-83.8 mm)
Memory		
Flash	128MB	16MB
RAM	64MB	64MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	LCD Display
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	4-Button - Standby, Media Feed, Setup, Info
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	7.4 V, 2300 mA-H
Warranty		
Printer	2 years	1 year
Printhead	2 years (when used with approved media)	1 year
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
4-Bay Printer Charger	Option - Configurable	Not Available
Battery	Included	Included
List Price w/802.11 radio and battery	\$1,295.00	\$1,295.00

Datamax-O'Neil RL3e vs. Brother RJ3050 / RJ3150

The enhanced features of the RL3e are major benefits compared to the Brother RJ3050 /RJ3150:

- 50% greater drop distance specification (RJ3150)
- 27% wider print width
- 128MB vs. 32MB flash memory standard for greater ability to load fonts, graphics and barcodes to the printer
- 2-year warranty vs. 1-year warranty for both printer and printhead (RJ3050)
- Smart Battery with 26% higher capacity enabled with expanded choice of charging options
- Optional 4-bay printer charger



Datamax-O'Neil RL3e



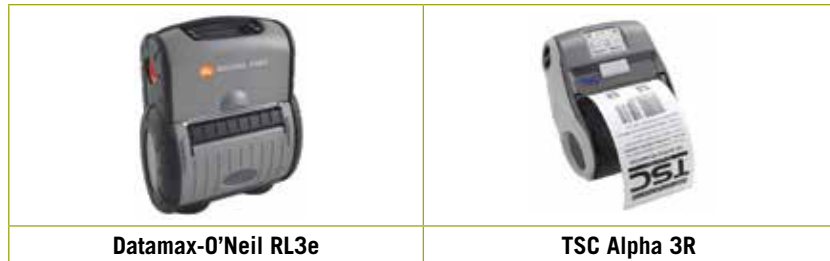
Brother RJ3050 / RJ3150

Physical		
Dimensions (mm)	5.6" x 7.6" x 3.2" (142 x 193 x 81)"	4.4 x 7.32 x 3.16 / 4.5" x 7.44" x 3.23" (112 x 186 x 80) / 116 x 189 x 82)
Weight (with Battery)	2.4 lbs. (1089 gms)	1.34 lbs (610 gms) / 1.43 lbs. (680 gms)
IP Rating	IP54 (with optional case)	IP54
Drop Specification	6 ft (1.8m)	4 ft (1.2m) / 6 ft (1.8m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB - 3150 model only
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 a/b/g/n Dual Radio (Optional)
Bluetooth	4.0 (Optional)	Optional
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal. 203 dots per inch, (8 dots per mm)
Print Width	2.8" (72 mm)	2.8" (83 mm)
Print Speed	4" (102mm) per second	5" (127mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 3" x 6" labels per roll	2.6" (66 mm) max roll diameter
ID Core	0.75" (19 mm)	0.5"(12.7mm), 1.0" (25.4)
Width	1-3.12" (26-79 mm)	1-3.14" (25.4-80 mm)
Memory		
Flash	128MB	32MB
RAM	64MB	32MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	Color LCD Display (3150 model Only)
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	4 Button - 5 LED indicators (3050 model) 4 Button, 4 menu buttons, On screen indicators & Battery Charge LED.
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	14.4 V 1800 mA-H
Warranty		
Printer	2 years	1 Yr / 2 Yrs
Printhead	2 years (when used with approved media)	1 Yr / 2 Yrs
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
Battery	Included	Included
4-Bay Printer Charger	Option - Configurable	Not Available
List Price w/802.11 radio and battery	\$1,295.00	\$1,210.00

Datamax-O'Neil RL3e vs. TSC Alpha 3R

See the advantages and features of the RL3e compared to the TSC Alpha 3R:

- 20% greater drop distance specification
- Bluetooth 4.0 vs. Bluetooth 2.1 availability
- 46% wider print width
- 128MB vs. 4MB flash memory
- 2-year warranty vs. 1-year warranty for printhead
- 76% higher battery capacity
- Smart battery features
- Optional 4-bay printer charger



Physical		
Dimensions (mm)	5.6" x 7.6" x 3.2" (142 x 193 x 81)"	4.57" x 5.83" x 2.75" (116 x 148 x 70)
Weight (with Battery)	2.4 lbs. (1089 gms)	1.2 lbs. (550 gms)
IP Rating	IP54 (with optional case)	IP54 (with optional case)
Drop Specification	6 ft (1.8m)	5 ft (1.5 m)
Communications		
Serial, USB	RS232 Standard, USB	RS232 Serial, USB
802.11	802.11 a/b/g/n Dual Radio (Optional)	802.11 b/g/n (Optional)
Bluetooth	4.0 (Optional)	2.1 Optional
Print Technology		
Printhead	Direct thermal, 203 dots per inch, (8 dots per mm)	Direct thermal, 203 dots per inch, (8 dots per mm)
Print Width	2.8" (72 mm)	2.8" (72 mm)
Print Speed	4" (102mm) per second	4" (102mm) per second
Media Specifications		
Capacity	2.65" (67 mm) max roll OD - approx. 124 3" x 6" labels per roll	2.16" (56 mm) max roll diameter
ID Core	0.75" (19 mm)	0.4", 1.0" (10.2 / 25.4mm)
Width	1-3.12" (26-79 mm)	2-3.15" (51-80 mm)
Memory		
Flash	128MB	4MB
RAM	64MB	8MB
User Interface		
Display	LCD Backlit Display 128 x 64 White LED Backlighting	Not Available
Controls	4-Button - Power, Media Feed, Menu, Wireless Radio & on-screen indicators	2 buttons (Power, Feed) & 2 LED indicators, 3 Color LED - Battery
Battery		
Type	Lithium Ion	Lithium Ion
Smart Battery Features	Included	Not Available
Capacity	14.8 V, 2200 mA-H (33 W-H)	2 cell 7.4 V, 2500 mA-H
Warranty		
Printer	2 years	2 year
Printhead	2 years (when used with approved media)	1 year
Options		
Magnetic Card Reader	Not Available	Not Available
Linerless	Option	Option
4-Bay Printer Charger	Option - Configurable	Not Available
List Price w/802.11 radio and battery	\$1,295.00	\$695.00



You can receive the same quality and reliability in our supplies that you have come to expect from our printer products. Choosing Datamax-O'Neil IQ Certified Supplies means that you're selecting supplies that have been certified by our engineers for use in our printers. It's the key to extending the life of the thermal print head, minimizing downtime and maintaining optimal performance throughout the life of the printer.

A broad breadth of Datamax-O'Neil Certified Printer Supplies is available for the RLe Series. The ShopSmart Catalog lists supplies and a variety of readily available die cut and perforated liner labels, as well as a selection of liner-less labels.

Datamax-O'Neil Printer: **RL3e**

Direct Thermal Lined/Linerless Labels - 0.75" Core ID, 2.65" Roll OD

Direct Thermal Lined/Linerless Labels and Receipt Paper - ImagePro Labels - Standard with Permanent Adhesive

Part Number	Width x Length	Approx. LBS/CTN	Rolls/CTN	Labels/Roll
740854-912	2.0" x 1.0" Die Cut (0.125" gap) - PERM	14	50	645
740855-909	3.0" x 2.0" Die Cut (0.125" gap) - PERM	14	50	340
740855-202	*Linerless/REM 3.0" x 113'	33	30	N/A
740855-203	*Linerless/PERM 3.0" x 113'	33	30	N/A

Datamax-O'Neil Printer: **RL4e**

Direct Thermal Lined/LineRLeess Labels - 0.75" Core ID, 2.65" Roll OD

Direct Thermal Lined/Linerless Labels and Receipt Paper - ImagePro Labels - Standard with Permanent Adhesive

Part Number	Width x Length	Approx. LBS/CTN	Rolls/CTN	Labels/Roll
740854-914	4.0" x 2.0" Die Cut (0.125" gap) - PERM	15	50	370
740854-915	4.0" x 3.0" Die Cut (0.125" gap) - PERM	15	50	245
740854-916	4.0" x 4.0" Die Cut (0.125" gap) - PERM	15	50	185
740854-910	4.0" x 6.0" Die Cut (0.125" gap) - PERM	17	50	123
740854-202	*Linerless/REM 4.0" x 85'	33	30	N/A
740854-203	*Linerless/PERM 4.0" x 85'	33	30	N/A

*Must be used in linerless capable RL Series printers. PERM = Permanent Adhesive. Contact your sales representative for details.

Direct Thermal Receipt Paper - 0.75" Core ID, 2.65" Roll OD

Part Number	Width x Length	Approx. LBS/CTN	Rolls/CTN	Labels/Roll
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RL3e

740855-102	Premium - 3.0" x 164' - Continuous	8	50	N/A
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RL4e

740854-102	Premium - 4.125" x 171' - Continuous	9	50	N/A
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Cleaning Pens and Cards - For Adhesive Applications

A two-step process designed to remove adhesive residue and give the thermal printhead, rollers and paper path a thorough cleaning. Each step involves inserting a chemically saturated card into the paper path. Step one will remove adhesive residue. Step two will remove any chemical residue remaining from the Step one card as well as all dirt and other contaminants from the thermal printhead, rollers and paper path. Sold in carton quantities.

Part Number	Printer Models	Approx. LBS/CTN	Pens/Cards per CTN for Step 1 and Step 2
770189-000	RL3, RL3e, RL4, RL4e Label	10	2 Part Cleaning Pen

PC Software

Windows Drivers

The RLe Series has drivers for use on the latest Windows operating systems. The drivers allow the user to view and change printer settings from any Windows software application, simplifying the print process. The drivers are available for download at www.datamax-oneil.com

Printer Configuration Tool

NETira™ Configuration Tool (NETira™ CT) is a Windows-based configuration tool that provides easy setup and configuration for the RLe Series. The modern look and feel helps simplify printer setup with a single menu structure. Numerous option selections are available to give users quick access to communication setup, customizable default settings and printer diagnostics. NETira™ CT will save significant time when configuring and deploying multiple printers giving operators time to focus on other business activities.

Label Designer

For small/medium business user applications that require simple label designs, Datamax-O'Neil offers NETira LD, a free out of the box label creation tool that is easy to use and quickly turns desktop printers into a labeling solution. The RLe Series also supports the leading industry label design software titles and can be downloaded from: Bartender – www.seagullscientific.com, Niceware/Nicelabel – www.nicelabel.com, Codesoft/Labelview – www.teklynx.com

NETira MD and NETira CA (NETira Connector) Device Management Software

Wavelink Avalanche Enabled

Wavelink Avalanche Mobility Center™ software is pre-loaded on wireless, 802.11-enabled RLe Series printers. Users of Wavelink can remotely monitor and configure the RLe Series wireless printers along with other wireless devices on the same network to provide extensive management functionalities that include centralized remote management, performance monitoring, software distribution and crucial device security.

NETira Tools

Compatible with today's leading enterprise mobile management utilities. Partnered with AirWatch®, Infinite Skyze and QualSoft, providing flexibility in device management support needed for today's dynamic mobile world.

Firmware and Emulations

Printer firmware is the printer's operating system that dictates how the printer runs and reacts to input. Check the Datamax-O'Neil website or with your local representative to find out about the full capabilities of the RLe Series firmware. The firmware controls printing, configuration, and emulations. Development is open sourced and updates are published regularly.

Printing

The printer's firmware controls every aspect of printing. Whether you are trying to print text, graphics, or barcodes, the firmware allows printing to be done quickly and efficiently. To get the best results, you should send printer commands to generate your printed output.

Printer Configuration

The printer firmware also controls how the printer is configured. Many software utilities provide a quick and easy method to change printer settings; however, the firmware has more functionality than what may be available in the configuration software. Refer to the printer programmer's guide for the full capabilities of the software.

Emulations

Emulation is the firmware's ability to communicate in another printer's command language. This allows for the easy replacement of another manufacturer's product without the need for a software or driver change. The RLe Series are shipped with multiple printer languages allowing users flexibility to communicate in many different environments. The RLe Series supports:

- DPL – Datamax-O'Neil printer language
- CPCL, EPL and ZPL II – Zebra printer language
- IPL – Intermec printer language
- XML - Extensible Markup Language

Networks and ERPs

The RLe Series comes ready to be integrated into many of the existing ecosystems where portable bar-code label printing is at home – all without the need for special firmware upgrades!

- The RLe Series is ready to be dropped into TCP-IP Networks as well as those that require the LPD protocol (AS/400, etc.)
- RLe Series has the capability to work with many of the most popular ERP systems. It has already proven its ability to store forms from SAP, drop into XML environments for Oracle, or pass compatibility testing with Manhattan Associates software. The RLe Series will keep your integration costs to a minimum, and will virtually eliminate your risk of losing the trust of customers with an easy drop-in integration.

Updates

The current firmware version of your printer is listed in the self-test printout. Firmware can be updated by uploading the new firmware file to the printer. Detailed instructions for uploading are included with the firmware file. Development updates are always being made to improve performance and enhance or add features. These updates are posted at www.datamax-oneil.com.

Certification	D-0 RL4e	D-0 RL3e
cUL	•	•
UL	•	•
CCC	•	•
SRRC	•	•
CE	•	•
FCC 15 Class B	•	•
EN55022 Class B	•	•
EN55024	•	•
IEC 60950-1 2nd edition	•	•
EAC-Customs Union	•	•



Service Options

Datamax-O'Neil now offers the most cost-effective product warranty programs to ensure that your business-critical printing applications continue trouble free and without interruption – long after the original warranty period has ended. You also get the peace of mind in knowing that service and repair is coming from the manufacturer, who has the infrastructure to ensure you receive the very best service at the most competitive price. Our Extended Warranty Service Agreements have been designed with a consistent and simple structure, enabling you to select a program that best suits your needs. The following features are provided:

- Quick Response Times
- A Variety of Comprehensive Coverage Options
- A Broad Choice of Contract Duration Options
- Ease of Purchase and Registration
- Upgradable to Other Service Options

Obtaining an Extended Warranty is easy. At the time of purchase or at any time during the Standard Warranty period, an Extended Warranty can be purchased to add up to 4 years to your printer's coverage. Then, choose from one of 3 value-added options to accommodate your business needs:

- Priority – with a 2-day turnaround on warranty repairs (standard warranty is 5-day turnaround).
- Printer Express – a “hot swap” exchange through a managed pool of customer-owned inventory
- Comprehensive – “no fault” comprehensive coverage

You can rest assured that printers covered by Datamax-O'Neil service options will continue to deliver top quality results for the duration of the agreement.

Warranty Service Procedures

A downloadable “Return Material Authorization (RMA)” form is available at www.datamax-oneil.com. It is necessary to obtain and print your RMA number clearly on your package before shipping.

Limited Warranty

Datamax-O'Neil warrants to Purchaser that under normal use and service, the RLe Series Printer, purchased hereunder shall be free from defects in material and workmanship for a period of 2 years from the date received. Expendable and/or consumable items or parts such as lamps, fuses, labels and ribbons are not covered under this warranty. This warranty does not cover equipment or parts that have been misused, altered, neglected, handled carelessly, or used for purposes other than those for which they were manufactured. This warranty also does not cover loss, damages resulting from accident, or damages resulting from unauthorized service.

Ordering a Printer ■ ■ ■

RL3e / RL4e Series

Rugged Portable Thermal 3" / 4" Label / Receipt Printers



Ordering Notes:

RLe Printers include the following items:

- One (1) battery, One (1) swivel belt clip, and external charging contacts.
- Two batteries are highly recommended.
- Standard factory warranty period of two (2) years.
- **NOTE:** Power supply is not included and must be **ordered separately**. See AC Adapters / Chargers under the Peripheral and Accessories page for available options.

	USD	Euro	R	DP	5	0	0	0	1	0
Printer Model										
RL3e - 3 in / 76 mm wide with USB and LCD	\$1,095	€ 875	L3							
RL4e - 4 in / 102 mm wide with USB and LCD	\$1,195	€ 945	L4							
Custom Kit										
Datamax-O'Neil Portable	\$0	€ 0		DP						
RI Models										
Rle Models	\$0	€ 0			5					
A/C Power (Autorange Supply) Configuration and Cord										
No Power Cord Supplied	\$0	€ 0					0			
Special Media Handling Options										
None (with external paper slot capacity)	\$0	€ 0						0		
Liner-less Media Capability	\$50	€ 40							1	
Not applicable - Reserved for future use										
Not applicable - Reserved for future use	\$0	€ 0							0	
Not Used										
Not Used	\$0	€ 0								0
Communication Interface Options										
RS-232 and USB only (Serial)	\$0	€ 0								0
Serial and 802.11 a/b/g/n Dual Radio	\$200	€ 160								3
Serial and Bluetooth v4.0 (Coming Soon)	\$100	€ 80								4
External Charging Contacts										
External contacts for charging	\$0	€ 0								1
Not Used										
Not Used	\$0	€ 0								0

Printers

Common Configurations	List Price
RL3-DP-50000010 - RL3e, 3" Label/ Receipt Printer, 64MB/128MB, Serial/USB, E-Charge, LCD	\$1,095
RL3-DP-50100010 - RL3e, 3" Label/ Receipt Printer, Linerless, 64MB/128MB, Serial/USB, E-Charge, LCD	\$1,145
RL3-DP-50000310 - RL3e, 3" Label/ Receipt Printer, 802.11/Bluetooth 4.0LE Dual Radio, 64MB/128MB, Serial/USB, E-Charge, LCD	\$1,295
RL3-DP-50100310 - RL3e, 3" Label/ Receipt Printer, 802.11/Bluetooth 4.0LE Dual Radio, Linerless, 64MB/128MB, Serial/USB, E-Charge, LCD	\$1,345
RL4-DP-50000010 - RL4e, 4" Label/ Receipt Printer, 64MB/128MB, Serial/USB, E-Charge, LCD	\$1,195
RL4-DP-50100010 - RL4e, Linerless, Serial/USB, E-Charge	\$1,245
RL4-DP-50000310 - RL4e, 5" Label/ Receipt Printer, 802.11/Bluetooth 4.0LE Dual Radio, Linerless, 64MB/128MB, Serial/USB, E-Charge, LCD	\$1,395
RL4-DP-50100310 - RL4e, 4" Label/ Receipt Printer, 802.11/Bluetooth 4.0LE Dual Radio, Linerless, 64MB/128MB, Serial/USB, E-Charge, LCD	\$1,445

NOTE: Not all options or configurations may be available separately. Certain options may be required to be included with some configurations. Contact your Datamax O'Neil Customer Service or your Sales Representative for more details

Ordering An Extended Warranty ■ ■ ■

Service Pricing

	USD		Euro		D	WS	W	P	E	C
Printer Model										
RL4e Printer							\$1			
RL3e Printer							\$2			
Custom Kit										
Warranty Service										
Extended Warranty										
List as "W" always										W
Extended Warranty Term										
No Extended Warranty Term Selected	\$0	€ 0					0			
3 Years (Standard Warranty + 1 Year)	\$105	€ 84					3			
5 Years (Standard Warranty + 3 Years)	\$252	€ 201					5			
Value Add Priority Level										
List as always "P"	\$0	€ 0								P
Pro Value Add Priority Term <i>(Can only select this option if Printer Express is not selected)</i>										
No Extended Warranty Term Selected	\$0	€ 0					0			
2 Years (Duration of Standard Warranty)	\$25	€ 20					2			
3 Years	\$36	€ 29					3			
5 Years	\$56	€ 45					5			
Value Add Printer Express Level <i>(Cannot select this option if Pro Value is selected)</i>										
List as always "E"										E
Value Add Printer Express Term										
No Additional Printer Express Terms selectec	\$0	€ 0					0			
2 Years (Duration of Standard Warranty)	\$85	€ 68					2			
3 Years	\$121	€ 97					3			
5 Years	\$191	€ 153					5			
Value Add Comprehensive Level										
List as always "C"										C
Value Add Comprehensive Term										
No Additional Comprehensive terms selectec	\$0	€ 0					0			
2 Years (Duration of Standard Warranty)	\$85	€ 68					2			
3 Years	\$134	€ 107					3			
5 Years	\$234	€ 187					5			

Accessories and Peripherals

The RLe Series comes with a full complement of accessories, developed and ready for your specific application, and more are being added throughout constantly. Please go to www.datamax-oneil.com to see additional accessories if you need something that is not included on the list, or contact your customer service representative about pursuing a custom product request to ensure an engineered solution that is right for you.

PART NUMBER	DESCRIPTION	USD	Euro
AC Adapters - Battery Chargers			
220515-100	AC Adapter for Charging with U.S. plug	\$52.00	n/a
220516-100	AC Adapter for Charging with EU plug	\$57.00	€ 46.00
220517-100	AC Adapter for Charging with UK plug	\$64.00	€ 51.00
220521-100	AC Adapter for Charging with Swiss plug	\$64.00	€ 51.00
220518-100	AC Adapter for Charging with AU plug	\$66.00	n/a
220282-000	DC/DC Voltage converter (12v-60v)	\$395.00	€ 315.00
220207-200	Vehicle Charge Cable Kit, 10'/3m	\$124.00	€ 99.00
510116-001	Cigarette Lighter Vehicle Power for Thermal Printers	\$17.00	€ 14.00
220275-000	Battery Charging Cradle (2 bay)	\$170.00	€ 135.00
550046-001	Spare Battery	\$110.00	€ 88.00
220284-000	Multiple Unit Charging Adapter with Power Supply (1 to 4), US Plug	\$152.00	€ 122.00
220285-000	Multiple Unit Charging Adapter with Power Supply (1 to 4), EU Plug	\$152.00	€ 122.00
220286-000	Multiple Unit Charging Adapter with Power Supply (1 to 4), UK Plug	\$152.00	€ 122.00
Multi-Bay Charger (Includes High Capacity AC Adapter and Multi-Unit Charging Adapter for multi-unit models)			
229028-000	Multi-Bay Charging Kit, RL series, 4-Upright Unit Depot Charger, US Plug	\$650.00	€ 520.00
229029-000	Multi-Bay Charging Kit, RL series, 3-Upright Unit & 2 Battery Depot Charger, US Plug	\$695.00	€ 560.00
229030-000	Single Charger Stand, RL Series - AC not included	\$180.00	€ 145.00
Communication Cables			
210304-100	USB Cable (mini B to USB-A)	\$15.00	€ 12.00
210164-100	Cable, Coiled, Right Angle, DB9 F	\$39.00	€ 31.00
210191-101	Cable DB-9 F (7'/2.1m)	\$54.00	€ 43.00
Accessories			
230112-000	RL Series Universal Mounting Bracket	\$95.00	€ 75.00
280656-000	RL Series Belt Clip	\$5.00	€ 4.00
210305-000	RL Series Belt Loop	\$20.00	€ 16.00
210300-000	RL Series Hand strap	\$10.00	€ 8.00
210302-000	RL Series Shoulder Strap	\$10.00	€ 8.00
750332-000	RL3 / RL3e IP54 Case	\$80.00	€ 64.00
220280-000	RL Series "RAM Mount" compatible Adapter and Ball	\$85.00	€ 68.00
280711-000	External Media Spacer - RL3 / RL3e	\$85.00	€ 68.00
280688-000	External Media Spacer - RL4 / RL4e	\$85.00	€ 68.00

right by our customers ■ ■ ■



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