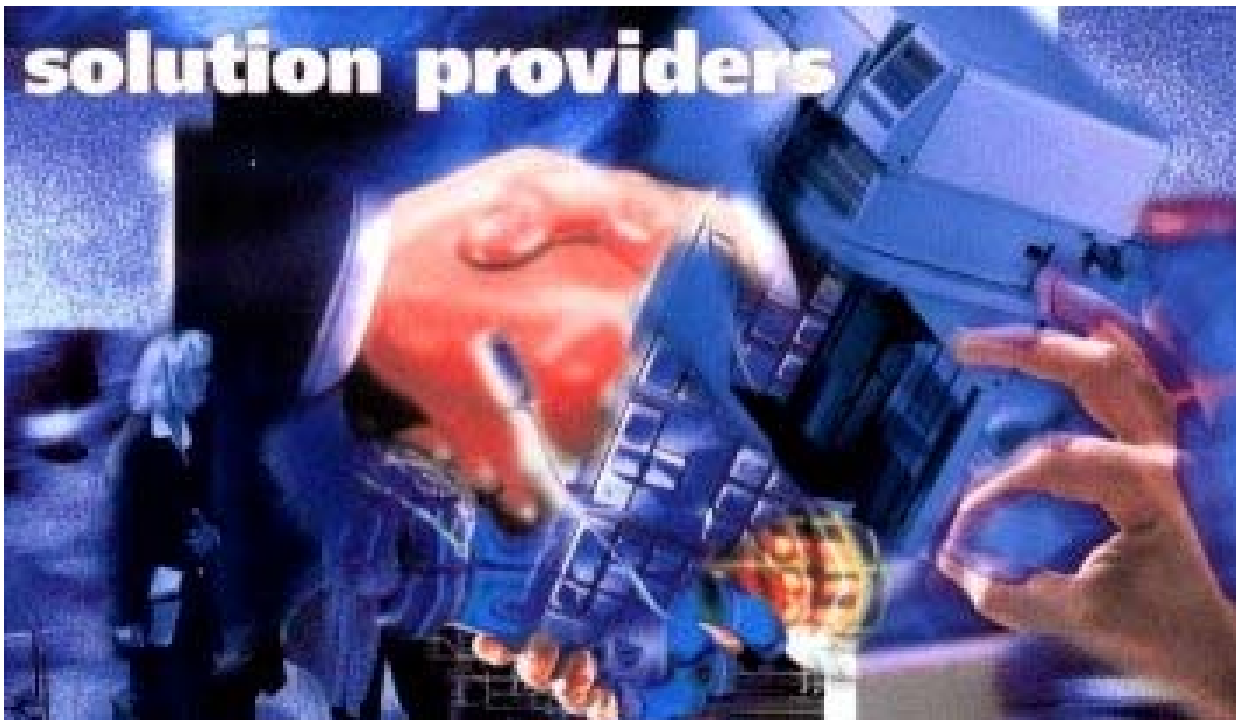


Mobile Data Capture & Printing SOLUTION PROVIDERS



[System Integration](#)

Solutions - Systems Integration

In today's logistics operations, systems must communicate freely with multiple external applications for the purposes of sharing data, initiating actions and synchronising events. Equally important is the need to drive a range of technology - from printers and readers to real-time radio solutions, warehouse automation, vehicle tracking and remote data capture. Chess Logistics Technology has a successful 20-year track record of providing logistics solutions in all sectors including retail, FMCG, retail distribution, manufacturing and third party logistics.

Newbury Data and our software partner, Chess Logistics Technology, provide a range of logistics solutions with integrated RFID, RF and Voice technology. An experienced systems integrator, we have particular expertise in interfacing our solutions with a wide range of host business systems using our powerful integration tools. We have successfully interfaced to ERP systems such as SAP, Oracle, BPCS, JBA, Baan, Movex and Navision as well as a range of in-house developed business systems.

[Mobile Applications](#)

Field Service, Field Automation: Delivering Superior Field Data Capture and Processing Ability to Mobile Workers

- Whether in the utilities industry or in the service and support operations of a large manufacturer, implementing a field service mobile computing solution strengthens your field service team. This means greater operational efficiency and productivity, plus an increased focus on service delivery and overall relationship management-creating competitive advantages for you. New or existing business applications can be extended to your field technicians using Psion Teklogix' portfolio of Rugged, ergonomic hand-held computers.
- Field service technicians can now access and update information as required to support their day-to-day work, while ensuring customers are invoiced in a timely manner generating improved cash flow for your business. Product information and part numbers can be accessed in real time, eliminating cumbersome manual processes often used today.

Transport: Staying On the Road and In Touch using Mobile Solutions

- Getting the right goods to the right customers quickly and cost-effectively has become a competitive must. Newbury Data mobile solutions for transportation and delivery keep you in contact with your goods and driver. By allowing employees to gather, enter and share data at the point of work, businesses can route smarter, and receive and communicate changes by the minute.

Warehousing & Distribution: Keeps Goods in Motion With Real-time Information

- As warehouse operations take on increased distribution roles, and e-commerce fulfilment requirements grow, the push is on for smaller, faster, more frequent deliveries. A wireless warehouse solution from Psion Teklogix puts real-time work order and inventory information at your fingertips so you can meet the new delivery demands while paring down operating costs.
- Ensure reliability with complete line of rugged equipment for harsh environments, including refrigerated cold storage facilities
- Jumpstart productivity with speaker-independent speech-based wireless systems, offering productivity and accuracy gains of up to 20% -- ideal for picking applications.
- Improve productivity and accuracy with wireless back-of-the-hand terminal
- Seamlessly integrate wireless systems with WMS and ERP systems including seamless SAP R/3 integration.

Automotive

- The highly-competitive automotive industry is changing at a rapid pace. Finding further operational efficiencies and offering new and improved ways to service customers are critical to the current and future success of this sector. Whether at the manufacturing and assembly facility or at the point of sale and dealer service, mobile computing solutions from Newbury Data can help the automotive industry increase efficiency of operations, and gain the competitive edge needed today.

Newbury Data and our network of partners offer mobile computing solutions that enable and support critical operational activities within mobile solutions. Our rugged hand-held, vehicle-mount computers and mobile printers are designed for the harsh and demanding manufacturing, warehousing and logistics applications within these industries.

Configurable Interface Solutions

Creating bespoke interfaces to external systems (ERP etc), is a key part of any WMS implementation, and usually involves time, cost and complexity. By using Empirica IXact, these can be drastically reduced. Instead, we provide a simple configurable solution to allow rapid interface development.



Empirica IXact is an advanced module for creating common interfaces between Empirica and external systems. IXact allows inbound and outbound interfaces to be created using flexible design processes. This gives significant control of the interface process to the customer, which reduces cost and development time - leading to faster implementation.

The module will process inbound and outbound ASCII files stored locally, or transfer from and to remote machines using FTP transfer. It may be used in conjunction with other specialist software products, allowing file conversion to or from alternative protocols (TRADACOMS, EDIFACT) when transmitted or received via proprietary networks or the Internet.

Empirica IXact - Key Features

- Static data transfer
- Form-type data transfer
- Transaction type data
- Standard Added data

- Data Filtering
- Interface Timetable
- Re-send Facility
- Interface History
- Standard Interface Definitions

Data Export

- Exporting data is very flexible. A user can create data export from all logical 'export' type files in Empirica. Data can be exported from any field in any format, in any order separated by a choice of field delimiters, or as fixed length fields.

Data Import

- Importing data is also simple. A user can specify data in an inbound transmission and populate a specific field within Empirica files. As data integrity needs to be ensured within Empirica, mandatory and validated fields are automatically defined on an inbound transmission.

Wireless Communications

RF-Solutions

- Over recent years, mobile hand-held or truck mounted RF terminals have become the accepted standard for wireless warehouse operation, and an established technology in logistics world-wide. Their use is widespread in retail, industrial, supply chain and mobile workforce applications. Working via permanent connection to radio infrastructure, the ruggedised industrial RF device has changed the meaning of warehouse efficiency by enabling real-time instruction and verification, yielding major benefits for users in accuracy and productivity.
- There is a large range of advanced products on the market, and the benefit of a common standard for wireless computing, IEEE 802.11b. Empirica's [Task-RF](#) is designed to take maximum advantage of wireless computing technology, by offering a sophisticated task scheduling solution to warehouse operators. It is compatible with all manufacturers' equipment, and can operate with both spread spectrum and narrow band infrastructure.



Empirica Task-RF

Empirica Task-RF is an intelligent task management and scheduling tool that allows you to use screen based RF data terminals and RF voice activated terminals through one common interface. Task-RF facilitates the use of the most applicable technology for each logistics task, helping to realise dramatic increases in the productivity of the workforce and accuracy of the order fulfilment process.

Used in combination with RF hand held terminals or truck mounted terminals with RFID scanners, Task-RF extends the functionality of the host application into the hands of the mobile worker with the emphasis on automated decision making through the use of user defined controlling parameters.

Some of the key features of Empirica Task-RF include:

- Tight integration with the host system is achieved using the Empirica IXact interface module
- Easy integration with label printers and terminals
- Intelligent task management, prioritisation and scheduling
- Task logging and status display including task problem log
- Performance monitoring
- RF user management and security
- Intuitive graphical user interface
- RF terminal set up
- Archive and restore services

Example of Task-RF Screen showing Scheduled Tasks →

Task Priority	Task Ref	Task Type	From Location	To Location	Movement Ref
MEDM	33687	Putaway	MAIN	AF31B	863909
MEDM	33688	Putaway	MAIN	AF35B	863909
MEDM	33689	Putaway	MAIN	AF36E	863909
MEDM	33690	Putaway	MAIN	AF41D	863909
MEDM	33691	Putaway	MAIN	AF43B	863909
MEDM	33692	Putaway	MAIN	AG13E	863909
MEDM	33693	Putaway	MAIN	AG18E	863909
MEDM	33694	Putaway	MAIN	AF32B	863911
MEDM	33695	Putaway	MAIN	AF32C	863911
MEDM	33696	Putaway	MAIN	AF32E	863911
MEDM	33697	Putaway	MAIN	AF44D	863911
MEDM	33698	Putaway	MAIN	AG52B	863912
MEDM	33701	Picking	FL69A	MADUT	268057
MEDM	33702	Picking	FL95A	MADUT	268057
MEDM	33703	Picking	FL54A	MADUT	268057
MEDM	33704	Picking	FL51A	MADUT	268057
MEDM	33705	Picking	FL50A	MADUT	268057
MEDM	33706	Picking	FL46A	MADUT	268057
MEDM	33707	Picking	FL45A	MADUT	268057
MEDM	33708	Picking	FL44A	MADUT	268057
MEDM	33709	Picking	FL34A	MADUT	268057

Hand Held Terminals/Computers

The Hot New Benchmark in Hand-Held Computing

- When clients talk, we listen. That's how we built the 7535. Engineered to meet the performance and durability requirements for data collection in the harshest of environments yet ergonomically crafted with the user in mind, the 7535 delivers on all fronts. Psion Teklogix has set the benchmark by building (F)lexibility, (I)ntegration, (R)uggedness, and (E)rgonomics (FIRE) into one device. Based on industry standards, and backwards compatible with the 7035, the 7535 is ideally suited to meet your mobile data collection and supply chain information needs, not only for today but also well into the future.

Feature Detail

- The 7535 have a vast array of technology and configuration options.
- Based on industry standards, the 7535 can integrate with almost any mobile computing infrastructure.
- Built by Psion Teklogix, the 7535 is backward compatible to the 7035.
- Designed from the outset to deliver exceptional ruggedness.
- The 7535 is designed to be an industry leader in comfort and ease of use.



Benefit

- The 7535 can be tailored to fit your individual corporate needs. The display, keypad, radio type, imaging/scanner technology are all customisable to ensure that you get the perfect fit for your application.
- The 7535 incorporates industry standards such as: Windows CE.Net, 802.11, Intel XScale, RFID, Bluetooth, GSM/GPRS, which makes for easy integration into your existing infrastructure.
- The 7535 is backward compatible with the 7035 to ensure that our customers can evolve their devices over time with no impact on productivity and no requirement for reprogramming.
- The 7535 stays up and running even in the harshest environments. This means that more units are on the floor delivering value, and not at a service depot getting repaired. The net result; a lower total cost of ownership for our customers.
- Ergonomically designed and light weight with a large, clear display and well thought out keypad makes the 7535 easy and comfortable to use for an entire work day.

The 7535 Difference

- The 7535 is a highly rugged and powerful Windows CE.Net based hand-held computer.
- User friendly and ergonomically designed, it delivers the performance and durability required for mobile data collection in the harshest environments. With comprehensive display, data input and connectivity options, the 7535 has the flexibility to fit your requirements. Designed with industry standard components at the forefront, the 7535 delivers seamless integration to your Supply Chain and Mobile Computing applications.
- Though the 7535 has the power to run the applications of tomorrow, it also provides investment protection by providing backwards compatibility to the applications of today.

Why Windows CE.Net

- The Windows CE family of products is quickly becoming the Operating System of choice among customers. Windows CE.Net supports advanced networking protocols that make it an excellent match for distributed computing applications. Additional CE.Net benefits include native support for Bluetooth, improved browser functionality, simplified WLAN configuration, and a shortened response time specifically designed to reduce latency in industrial devices. Ease of application integration, comprehensive application development tools and a growing set of connected capabilities make Windows CE.Net the logical choice for Next Generation Platforms such as the 7535.

Utmost in Flexibility:

- Use of flexible technologies ensure that you receive the right product for the right application. The 7535 offers a choice of scanners, radios, displays and keyboards to ensure a solid fit with your application. The 7535 Specification Sheet listed at the right has even more details!

Ease of Integration:

- Standards based design delivers ease of integration into your existing infrastructure. Key standards include Windows CE.NET and Intel XScale architecture, Compact Flash and SD I/O expansion card slots for memory or radios, and 802.11b, Bluetooth and GSM/GPRS radio technologies. And, the 7535 is even backwards compatible to the 7035 running TekTerm to ensure investment protection.

Exceptional Ruggedness:

- Our rugged terminal delivers overall system uptime even in the harshest environments. Every component of the 7535 has been designed with ruggedness in mind to achieve class-leading ruggedness. The 7535 is sealed against dust and water with an IP65 rating and can withstand 5 ft. (1.5 meter) drops to polished concrete 26 times. The 7535 Specification Sheet listed at the right has even more details!

Outstanding Ergonomics:

- Exceptional ergonomics ensure comfortable usage for a full shift. The 7535 was scientifically engineered with input from leading ergonomic consultants to achieve an ideally balanced, easy to handle terminal that weighs in at only 650grams (23oz). And, with a sunlight readable display combined with a backlit keypad, the 7535 is easy to use and read in all lighting conditions.

Mobile Printing

Business moves fast. Printing systems should move with it.

Extend the benefits of bar coding, labelling, ticketing, and receipt printing anywhere work needs to be done with easy-to-use mobile printers from Zebra. Mobile printing makes workers more productive, improves labelling and tracking accuracy and creates new service and sales opportunities.

RETAIL APPLICATIONS:

- **Price Marking:** By printing and applying mark-down labels at the location of the product via wireless LAN, retailers can respond to sensitive market changes more frequently.
- **Shelf Labelling:** Use a QL to print one or multiple shelf labels at the point of application as required—avoiding waste and improving efficiency.

ROUTE ACCOUNTING/FIELD SERVICE APPLICATIONS:

- **Postal/ Delivery Verification Slips:** Use a QL printer to print delivery receipts at the point of transaction, confirming the actual items that transferred possession.

DISTRIBUTION, SHIPPING AND RECEIVING APPLICATIONS:

- **Receiving Verification/Inventory Updates:** Apply QL-printed bar code labels as deliveries are received to record product arrival, and scan these labels throughout the process for tracking purposes.
- **Forklift-Mounted Printing:** With the QL 420's mobile mount option, forklift operators can print product identification, bin, and shipping labels at the point of application—without needing to run back to the shipping office to pick up labels.

HEALTHCARE APPLICATIONS:

- **Specimen Labels:** Healthcare facilities can print specimen labels at the point of collection, and also print a bar coded label for the patient's chart, reducing the risk for dangerous misinformation.
- **Retail Pharmacy Labels:** Retail pharmacies can scan the prescribed medicine and print bar coded labels with patient information when using the QL anywhere in the pharmacy, minimising the risk for wrongly filled prescriptions.

MANUFACTURING APPLICATIONS:

- **Pallet Labelling:** When breaking into a pallet to remove a partial order, employees can label the partial, and re-label the pallet in real-time to maintain inventory accuracy.

QL Series: Rugged mobile printers to meet your changing business needs:

Need a printing partner tough enough for the concrete jungle?

From warehouse floors to parking lots, there are no printers more durable than the QL series from Zebra. The QL series of direct thermal printers have been designed with the most advanced technology in rubberised over-moulding to maintain rugged construction and minimal weight. With centre loading media, smart battery monitoring and an optional LCD, they provide user-friendly options to keep your business moving.

QL series mobile printers enabled with secure wireless options are easily integrated into your infrastructure. Just a glance at the optional LCD, and you can read your network settings, or check the communications status. In addition, each printer can be assigned a unique IP address for monitoring over the network, and messages can be sent to the printer using the POP3 functionality.

All of these features make the QL printer an integral part of your network environment. The QL series' QuickLink(TM) modules, in Bluetooth technology or 802.11b, offer the flexibility to adjust to a wide range of connectivity needs. As needs change, so can QuickLink modules.

The QuickLink Connection

Choose the QuickLink connectivity module that suits your needs:

- 802.11b—the latest and greatest WLAN connectivity
- Bluetooth—low-power consumption short-range connectivity
- Cable-ready—connect to a wider variety of terminals than any other mobile printer

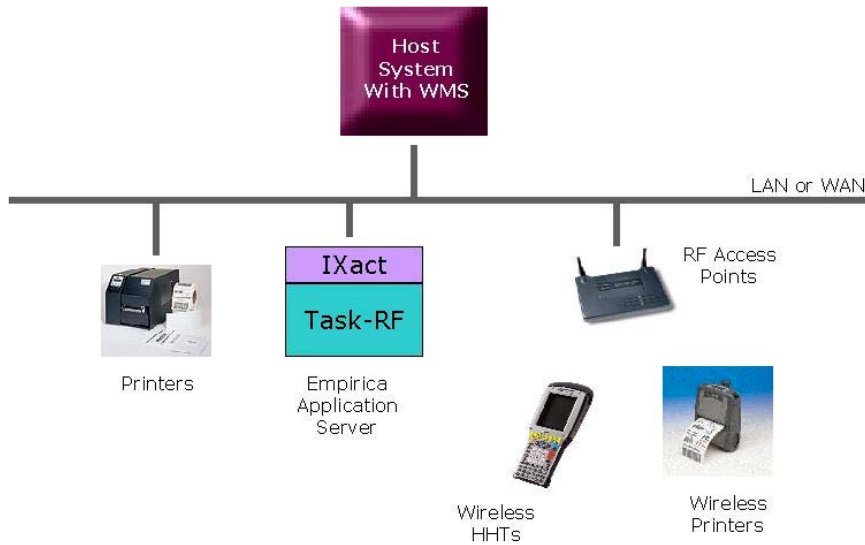
Rugged, Lightweight Printer

- Rubber infused plastic over-mold design for tough conditions
- Damage-resistant to multiple drops of up to five feet
- Weight of two pounds or less for effortless mobility
- Center-locking media loading
- Engage the easy-to-use peel and present function with the flip of a bar



[How it looks: Wireless Mobile Data Capture & Printing Infrastructure](#)

Host System with WMS



Terminal: Wireless Connection to Hand Held Terminal
Printer: Wireless Connection Direct to Printer
Or via BlueTooth Connection from the Terminal

Note:
The Terminal could be either:
Hand Held Terminals
PDA
In Vehicle/Cab Mounted
Forklift/Truck Mounted Terminal

The Printer could be either
Hand Held
Belt/Strap Held
In Vehicle/Cab Mounted
Forklift/Truck Mounted

Newbury Data Recording Ltd
Premier Park
Road One
Winsford
Cheshire
CW7 3PT
Tel: +44 (0) 1606 593424
Fax: +44 (0) 1606 558383
Email: ndsales@newburydata.co.uk
Web: <http://www.newburydata.co.uk>