Incorporating High Quality Barcode Printers into Your IoT Strategy for Effective Device Management

OVERVIEW

Problem
Reduce Costs by Incorporating Barcodes into Your IoT Strategy

Background
The Fundamentals of IoT

Solution
Better Barcodes and IoT Device Management with Our Enterprise Printers and Software

When you hear the Internet of Things (IoT), your head might fill with images of cloud servers, blinking lights and electronic equipment. These images may not come to mind when you think of barcode labels. But barcodes are absolutely a part of IoT. Barcodes today enable process automation, form connections, and are the grease that keep the wheels of product delivery moving.

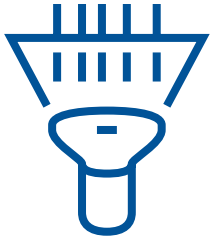
IoT devices are growing in use and organizations are under pressure to maintain productivity schedules. Simplified management to support remote configurations, maintenance, and to maximize output for IoT devices, including barcode printers, requires advanced technology as part of your IoT strategy.

PROBLEM

Reduce Costs by Incorporating Barcodes into Your IoT Strategy

If you don't include barcodes in your IoT strategy, you could be missing an opportunity and spending too much on barcode label production.

Barcodes enable process automation, form connections, and facilitate better product delivery and supply chain management. Barcode-enabled information from billions of transactions feed terabytes of cloud servers by capturing data easily and reliably without wires and batteries at the lowest cost possible today. Addressing barcodes with your IoT strategy allows them to be a part of the larger business processes and to support enhanced productivity.



BACKGROUND
The Fundamentals of IoT

IoT has some fundamental concepts. The first is that each thing of interest has an identity. It can be a thermostat, a cell phone, or a package of meat, as examples. Barcodes do this on the scale of billions every single day. Barcodes identify items by type or unique serial number, and each item has a unique identity.

Next each thing must have a way to communicate its identity and contained information easily and inexpensively. If the identification and communication is too expensive to apply, the value is lost. The joy of barcodes is their simplicity in applying an identity to the item with minimal to no cost and the ease of reading barcodes. It's possible to read barcodes using a scanner found in every warehouse or loading dock. Even smartphones can scan and recognize barcodes. Barcodes are not only ubiquitous in their creation, but also their ability to easily capture and convey information.

Lastly, the thing of interest must establish a link to share information. For example, QR codes can contain a URL or up to 7,000 characters of information to share. QR codes can provide a bridge to link people to a wide range of things, such as:

- Plant maturity/lifecycle management
- Unique weight capture at harvest and during processing
- General plant and package inventory
- Real-time location
- Item movement
- Item destruction
- Parent-child relationships as plants are transformed from one product to another
- Order fulfillment
- Shipping and receiving

Our ODV-2D barcode inspection printers help you stay compliant with requirements and reduce chargebacks by providing automated label inspection.

SOLUTION
Better Barcodes and IoT Device Management with Our Enterprise Printers and Software

Barcodes enable process automation, form connections, and facilitate better product delivery and supply chain management. Barcode-enabled information from billions of transactions feed terabytes of cloud servers by capturing data easily and reliably without wires and batteries at the lowest cost possible today.

Barcodes are universally readable unless an error occurs in the print process to degrade or render the barcode unreadable. Many receiving companies have strict barcode quality guidelines and companies must comply with these standards or risk delays, fines/chargebacks, and other penalties.

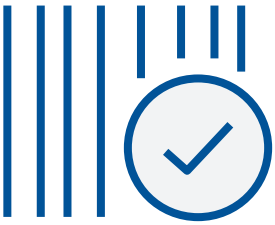
Our ODV-2D barcode inspection printers help you stay compliant with requirements and reduce chargebacks by providing automated label inspection. And these printers can overstrike an unreadable barcode and reprint it automatically without needing operator intervention. These printers can be managed remotely using remote printer management software tools.

RECOMMENDATION
T6000e or T8000 Enterprise Industrial Printers

Optimizing compliance and productivity is most effective when verifying barcode label quality before the label is applied to a package. This can be done easily and automatically with our Printronix Auto ID T6000e or T8000 enterprise industrial printers with integrated ODV-2D barcode inspection systems. These printers have the capability to automatically find, grade, report and overstrike any bad barcode and reprint automatically without operator intervention, saving time and money.

T8000 ODV-2D T6000e ODV-2D

Add to this the option to manage your printers remotely from anywhere with our software solutions SOTI Connect or PrintNet Enterprise, and IoT device management becomes even simpler. SOTI Connect allows you to remotely configure printer settings, update firmware, and troubleshoot issues for printer fleets that span the globe. PrintNet Enterprise enables you to centrally manage, organize and control Printronix Auto ID printers remotely with configuration and firmware updates, plus instant notifications for printer issues.



CONCLUSION

IoT strategy should encompass barcode labels and the printers that create them. Using our printers with advanced ODV-2D barcode inspection systems ensures your labels will be accurate every time and easily corrected in the case of an unreadable label. Using remote management software can enable ease of checking configurations, finding historic data, and troubleshooting more quickly to save time and money.

To learn more about this solution, please contact your local sales representative.