



# code

## Application-in-Brief: CR2 Facilitates Supply Chain Tracking and Warehouse Processes at TI

**Texas Instruments** (TI) needed a process for tracking unfinished components and finished product from point to point throughout the TI manufacturing supply chain to regional distribution centers, and then through fulfillment and shipment consolidation processes, utilizing several bar code types.

TI uses 20+ wafer manufacturing sites worldwide. Wafer fabrication processes often require sending components to several different manufacturing locations in succession (multi-factory flow). Once manufacture is complete, integrated circuits are sent to a regional distribution center where they are consolidated for shipment to a client. Tracking thousands of high volume part numbers through manufacturing and fulfillment processes proved challenging for TI.

TI chose Code Reader 2.0 (CR2) as one of its primary readers worldwide because of its ability to read direct part marks, 1D and 2D bar codes equally well. Pick lists and orders contained 1D bar codes while finished product packaging, shipping labels and confirmation information used 2D bar codes. Some individual components had 2D direct part markings. All identifying bar codes, including way bill numbers, trace numbers and unique box 'license plate' information are included in shipment consolidation paperwork and TI's tracking system. CR2 reads, decodes and wirelessly transmits all bar code data to host computers that support TI's supply chain process as well as shipment tracking / consolidation.

### Solution Components:



**Code Reader 2.0 with Handle; Captures data wirelessly transmitted, interfaces with enterprise software solution without additional programming, using scan scripts.**

**Wireless CR2 in 'gun format' reads 1D and 2D bar codes side-by-side. Data is transmitted wirelessly supporting multiple picking, shipping and warehouse processes for TI.**



Shipping cartons are packed and labels printed after 2D bar codes are scanned (verified) into the final consolidation shipping record.

### Application Benefits:

- 2D bar codes, best use of label 'real estate'
- High-volume pick and shipping consolidation processes supported by CR2 single scan and reading efficiencies

### Why Code Readers?

TI indicates CR2 selection was based on:

- Small size; gun format option
- Fast reading of all bar code types
- Ease of use - limited training needed
- No additional programming needed to interface captured data with software application
- Wireless data transmission
- Ability to read small direct part marks as well as 1D (linear) and 2D bar codes

*"Code readers are one of the few readers on the market that can read small direct part marks on our components and still read larger 1D and 2D bar codes on shipping labels, with little or no configuration changes."*

- Dan Wikander  
Manager, Auto-Track IT  
Texas Instruments

**Code Corporation**

(801) 495-2200

www.codecorp.com

Sales Support: sales@codecorp.com

Tech Support: support@codecorp.com

© 2006 Code Corporation. All Rights Reserved.

**Texas Instruments**

www.ti.com

The mention of specific suppliers and products is for information sharing only and not an endorsement by TI.

