Know Your GS1 Barcodes and What Is In Them!

Key to Patient Safety and Supply Chain Efficiency

### What's in a Barcode?

| GTIN® With Expiration Date, Batch/Lot and Serial Number Encoded in a GS1-128 Barcode* |
| GTIN – Global Trade Item Number | Expiration Date | Batch/Lot Number | Serial Number |
| (01) 00614141 007349 (17) 141231 (10) A123458 (21) 1234 |

*Same data can be encoded in either GS1-128 or GS1 DataMatrix. Store data in separate fields in database to allow Data Query.

### GS1 DataMatrix

| Example of GS1 DataMatrix for DSCSA* or U.S. FDA UDI** |
| GTIN - Global Trade Item Number | Expiration Date | Batch/Lot Number | Serial Number |
| GTIN 0014141099956 | 09000000234 | 25 JAN 2015 |

*For information about the act, see the 2013 Drug Supply Chain Security Act.
**For information about the rule, see the U.S. FDA Unique Device Identification System.

### Examples of GS1-128 Barcodes for U.S. FDA UDI*

- GTIN With Expiration Date, Batch/Lot and Serial Number Encoded in a GS1-128 Barcode
- GTIN With Batch/Lot Number Encoded in a GS1-128 Barcode

Individual manufacturers select the data encoded based on their control procedures.

*GTIN can be encoded on the top GS1-128 or the lower GS1-128.

### GS1 Barcode Tips

1. Parentheses are not encoded
2. Spaces are not encoded
3. Minimum Grade C except ITF-14 (D)

### GS1 US Implementation Resources

- GS1 Standards Resources for U.S. FDA Unique Device Identification (UDI) Implementation Support
  - www.gs1us.org/UDIresources
- GS1 Standards Resources for Supporting the Implementation of Drug Supply Chain Security Act (DSCSA)
  - www.gs1us.org/DSCSA

### Notes & Tools

- **EAN®/U.P.C.**
- **ITF - 14**
- **GS1 DataBar® Stacked**
- **GS1 DataBar Limited With Composite Component**

### GS1 Data Carriers

- Electronic Product Code (EPC®)-Enabled in Radio Frequency Identification (RFID) Tag
- EAN®/U.P.C.**
- GS1 DataMatrix

Carries a serialized GTIN (sGTIN)

North American Retail

Shipping Containers (Especially Corrugated)

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*The appearance of the EPCGlobal® Seal is to inform that an EPC-Enabled RFID tag is present on or within the packaging of the product(s).

*In this publication, the letters “U.P.C.” are used solely as an abbreviation for the “Universal Product Code,” which is a product identification system. They do not refer to the UPC, which is a federally registered certification mark of the International Association of Plumbing and Mechanical Officials (IAPMO) to certify compliance with a Uniform Plumbing Code as authorized by IAPMO.

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Carries a serialized GTIN (sGTIN)