

DigiKey ASN Label Quick Reference

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1.0 Purpose

This document outlines the requirements and structure of the Advance Ship Notice (ASN) label in accordance with ASN specifications set forth by DigiKey.

2.0 Guidelines

- 2.1 Label Field Requirements
 - The following fields are required or suggested on the License Plate Number (LPN), or Line Item (LI) label with like attributes. Barcodes require an Application Identifier (AI) or Data identifier (DI)
 - A. Required Data (10 to 16pt font, unless expressed otherwise)
 - 1. From Address: Vendor's ship from name and address (10 to 12 pt font)
 - 2. To Address: Ship to name and address (10 to 12 pt font)
 - 3. Ship To postal code and barcode GS1-US or ANSI (International Organization for Standardization)
 - a. GS1
 - I. Barcode: GS1-128 symbology
 - II. Data Identifier: 420
 - b. ANSI
 - I. Barcode: Code-128 symbology
 - II. Data Identifier: 31L
 - 4. DigiKey PO Number and Barcode
 - a. Barcode: Code-128 symbology
 - b. Data Identifier: K
 - 5. Vender/Supplier Part Number and barcode
 - a. Barcode: Code-128 symbology
 - b. Data Identifier: 1P
 - 6. ASN number and barcode
 - a. DigiKey Advance Ship Notice DKASN-18
 - I. Barcode: Code-128 symbology, 18-digit length (excluding DI)
 - II. Data Identifier: 9S
 - b. Serialized Shipping Container Code SSCC-18
 - I. Barcode: GS1-128 symbology, 18-digit length (excluding AI)
 - II. Application Identifier: 00
 - B. Optional Data (Shown with red text in label sample, 10 to 16pt font)
 - 1. Shipment Information
 - a. Carrier Name
 - b. Progressive Number (PRO #)
 - c. Bill of Lading Number (B/L Number)
 - d. Carton or Pallet count (Cartons/Pallet)
 - 2. Lot Number, displayed with N/T if Not Traceable
 - 3. Date Code, displayed in 4-digit YYWW format, or N/T if Not Traceable



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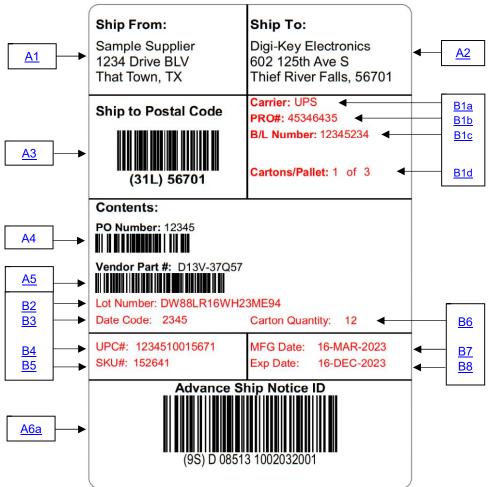
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 4. Universal Product Code (UPC #)
 5. Stock Keeping Unit (SKU #)

 6. Carton Quantity – count of individual pieces within carton
 7. Manufactured Date (MFG DATE)

 8. Expiration Date (MFG Date)
 8.

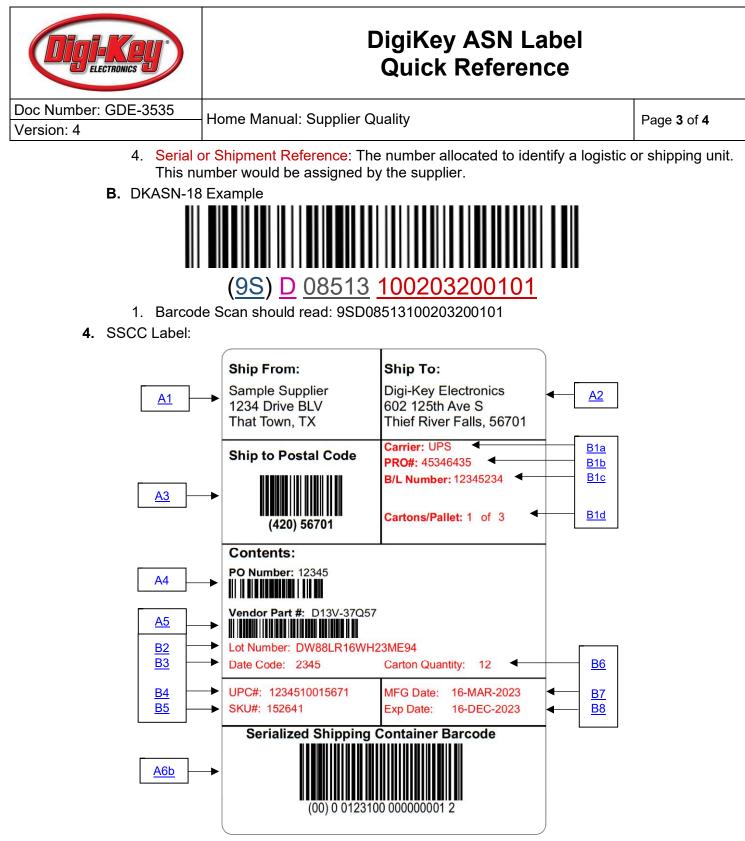
2. DKASN Label:



Note: Text in red is optional data and may be excluded from label but may be required in the EDI transaction.

- 3. DKASN ID Data structure
 - **A.** The ASN number and barcode is structured as follows:
 - 1. Data Identifier (2 characters): 9S to indicate DKASN number. Note: In certain scenarios, 00 AI may be used in place of 9S.
 - 2. Barcode Specification (1 character): D to indicate DigiKey specification.
 - 3. Supplier/ Vendor ID (5 digits): A unique number assigned to each supplier or entity doing business with DigiKey. If Vendor ID is less than 5 digits, 0 will be used as leading digit(s).

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Note: Text in red is optional data and may be excluded from label but may be required in the EDI transaction.

- 5. SSCC ID Data structure
 - **A.** The SSCC number and barcode is structured as follows:
 - 1. Application Identifier (2 digits): 00 to indicate an SSCC ID.
 - 2. Extension Digit (1 digit, 0-9): Used to increase capacity of the Serial Reference.

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- GS1 Company Prefix: A globally unique number issued to a GS1 member company. This
 is assigned through the GS1 US application. (<u>See section 4</u>)
- 4. Serial Reference: The number allocated to identify a logistic or shipping unit.
- 5. Check Digit: A modulo 10-digit used to check for input errors. (See section 3.C)
- B. SSCC-18 Example



- 1. Barcode Scan should read: 00000422730000001131
- C. Check Digit Calculation
 - 1. The check digit is calculated using the following steps:
 - a. Multiply the numbers in positions one, three, five, seven, nine, eleven, thirteen, fifteen, and seventeen by 3, then add together.
 - I. Using the above example: 0+0+6+21+0+0+0+3+9=39
 - b. Add the numbers in positions two, four, six, eight, ten, twelve, fourteen, and sixteen.
 - I. 0+4+2+3+0+0+0+1 = 10
 - c. Add the results of step a and step b.
 - I. 39+10 = 49
 - d. The Check Digit is the smallest number needed to round the result from step c up to a multiple of 10.
 - I. 49+1 = 50, thus check digit is 1
 - e. This can be confirmed by setting up a table with 18 columns, 1 column for each digit within the sequence and the 18th column reserved for the check digit.

Position:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
SSCC ID	0	0	0	4	2	2	7	3	0	0	0	0	0	0	1	1	3	V
	0		0		6		21		0		0		0		3		9	
Step a	Step a Multiply values in positions 1, 3, 5, 7, 9, 11, 13, 15, 17, then add values (example: 39)																	
		0		4		2		3		0		0		0		1		
Step b	Step b Add values in positions 2, 4, 6, 8, 10, 12, 14, 16 (example: 10)																	
Step c	Step c Add steps a & b (example: 39+10 = 49)																	
Step d	Stop d Step c result rounded up to the nearest multiple of 10, minus step d result (example: 49									1								
Step u	rounded up to 50, 50-49 = 1)								L									

Note: Barcoding software capable of GS1-128 SSCC barcodes have the capability to calculate the check digit automatically.

- 6. GS1 Company Prefix
 - **A.** The GS1 Company prefix is assigned through the GS1 application site. An overview of the GS1 US Serial Shipping Container Code (SSCC) can be <u>found here</u>.
 - 1. Alternatively: <u>https://www.gs1.org/standards/id-keys/sscc</u>

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Name of Approver	Approval Date	Approval Notes
Derek Haas	Mar 13, 2024	
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Activity	Created By	Created Date	Comment
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submitforapproval	Dustin Berg	Mar 12, 2024	
approveapproval	Eric Reinhardt	Mar 12, 2024	
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approveapproval	Wynn Klamm	Mar 13, 2024	
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Reference

No records to display.