



# **SANMINA CORPORATION**

## **TRADITIONAL INVENTORY INQUIRY/ADVICE INBOUND**

**846**

**VERSION**

**004010**

**Prepared By: Sanmina Information Technology & Services**  
**Date: March 24, 2020**  
**Version: 9**

# 846 Inventory Inquiry/Advice

Functional Group ID=**IB**

## Introduction:

This standard contains the format and establishes the data contents of the Inventory Inquiry/Advice Transaction Set (846) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

## Notes:

From Supplier to Sanmina

## Heading:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina Required	Max.Use	Loop Repeat	Notes and Comments
010	ST	Transaction Set Header	M	Must Use	1		
020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	Must Use	1		
040	CUR	Currency	O		1		
050	DTM	Date/Time Reference	O	Must Use	10		
		LOOP ID - N1				5	
080	N1	Name	O	Must Use	1		

## Detail:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina Required	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - LIN				10000	
010	LIN	Item Identification	M	Must Use	1		
		LOOP ID - QTY				99	
320	QTY	Quantity	O	Must Use	1		
330	UIT	Unit Detail	O	Must Use	12		

## Summary:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina Required	Max.Use	Loop Repeat	Notes and Comments
010	CTT	Transaction Totals	O	Must Use	1		N1
020	SE	Transaction Set Trailer	M	Must Use	1		

## Transaction Set Notes

- Number of line items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (QTY02) of each QTY segment.

**Available characters:** A-Z, a-z, 0-9, ., -, +, {, }, [, ], 9, 0, :, ;, %, |, <, >, !, ", \$, ~, ^, &, #, =, |, @

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**X12 Usage:** Mandatory  
**Sanmina Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).  
**Comments:**

**Data Element Summary**

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 846 Inventory Inquiry/Advice - Buyer Initiated	ID 3/3
Must Use	ST02	329	<b>Transaction Set Control Number</b> Identifying control number assigned by the originator for a transaction set.	AN 4/9

ST~846~1979}

**Segment:** **BIA** Beginning Segment for Inventory Inquiry/Advice  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**X12 Usage:** Mandatory  
**Sanmina Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of an Inventory Inquiry/Advice Transaction Set  
**Syntax Notes:**  
**Semantic Notes:**

- 1 BIA03 identifies the number of the inquiry/advice that is transferred.
- 2 BIA04 identifies the date of the inquiry/advice that is transferred.
- 3 BIA05 identifies the time of the inquiry/advice that is transferred.

**Comments:**

**Data Element Summary**

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	<b>BIA01</b>	<b>353</b>	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 00 Original	<b>ID 2/2</b>
Must Use	<b>BIA02</b>	<b>755</b>	<b>Report Type Code</b> Code indicating the title or contents of a document, report or supporting item. CM Customer/Manufacturer Inventory Report.	<b>ID 2/2</b>
Must Use	<b>BIA03</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. <b>Sequential number assigned by sender.</b>	<b>AN 1/30</b>
Must Use	<b>BIA04</b>	<b>373</b>	<b>Date</b> Date expressed as CCYYMMDD <b>Date 846 Transaction created.</b>	<b>DT 8/8</b>
	<b>BIA06</b>	<b>306</b>	<b>Action Code</b> Code indicating type of action. 11 Approve	<b>AN 1/2</b>

BIA~00~CM~10353~20190811~~11 }

**Segment:** **CUR** Currency  
**Position:** 040  
**Loop:**  
**Level:** Heading  
**X12 Usage:** Optional  
**Sanmina Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the currency (dollars, pounds, francs, etc.) used in a transaction  
**Syntax Notes:**

- 1 If CUR08 is present, then CUR07 is required.
- 2 If CUR09 is present, then CUR07 is required.
- 3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 4 If CUR11 is present, then CUR10 is required.
- 5 If CUR12 is present, then CUR10 is required.
- 6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 7 If CUR14 is present, then CUR13 is required.
- 8 If CUR15 is present, then CUR13 is required.
- 9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 10 If CUR17 is present, then CUR16 is required.
- 11 If CUR18 is present, then CUR16 is required.
- 12 If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- 13 If CUR20 is present, then CUR19 is required.
- 14 If CUR21 is present, then CUR19 is required.

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

<b>Sanmina Required</b>	<b>Ref. Desc.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
	<b>CUR01</b>	<b>98</b>	<b>Entity Identifier Code</b> Code identifying an organizational entity or a physical location. BY Buying Party (Purchaser)	<b>ID 2/2</b>
	<b>CUR02</b>	<b>100</b>	<b>Currency Code</b> Code (Standard ISO) for country in whose currency the charges are specified	<b>ID 3/3</b>

CUR~BY~USD}

**Segment:** **DTM** Date/Time Reference  
**Position:** 100  
**Loop:** LIN  
**Level:** Heading  
**X12 Usage:** Optional  
**Sanmina Usage:** Mandatory  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	<b>DTM01</b>	<b>374</b>	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time. 007 Effective date and time of when the inventory balances were read from the system	<b>ID 3/3</b>
Must Use	<b>DTM02</b>	<b>373</b>	<b>Date</b> Date expressed as CCYYMMDD	<b>DT 8/8</b>
Must Use	<b>DTM03</b>	<b>337</b>	Time expressed as HHMM	<b>TM 4/8</b>
Must Use	<b>DTM04</b>	<b>623</b>	<b>Time code</b> Code specifying time. GM Greenwich Mean Time	<b>ID 2/2</b>

DTM~007~20190811~2300~GM}

**Segment:** **N1** Name  
**Position:** 080  
**Loop:** N1  
**Level:** Heading  
**X12 Usage:** Optional  
**Sanmina Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.  
 2 N105 and N106 further define the type of entity in N101.

**Data Element Summary**

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	<b>N101</b>	<b>98</b>	<b>Entity Identifier Code</b> Code identifying an organizational entity or a physical location. SE Selling Party ST Ship To	<b>ID 2/3</b>
Must Use	<b>N102</b>	<b>93</b>	<b>Name</b> Free-form Name	<b>AN 1/60</b>
Must Use	<b>N103</b>	<b>66</b>	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent.	<b>ID 1/2</b>
Must Use	<b>N104</b>	<b>67</b>	<b>Identification Code</b> Code Identifying a Party or Other Code. <b>Sanmina's ship to code when N101 is ST.</b> <b>Sanmina's supplier code when N101 is SE.</b>	<b>AN 2/80</b>

N1~ST~EMS PLANT E88 ~92~SAN003}  
 N1~SE~XYZ Corporation~92~XYZ001}

<b>Segment:</b>	<b>LIN</b> Item Identification
<b>Position:</b>	010
<b>Loop:</b>	LIN
<b>Level:</b>	Detail
<b>X12 Usage:</b>	Mandatory
<b>Sanmina Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify basic item identification data
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either LIN04 or LIN05 is present, then the other is required.</li> <li>2 If either LIN06 or LIN07 is present, then the other is required.</li> <li>3 If either LIN08 or LIN09 is present, then the other is required.</li> <li>4 If either LIN10 or LIN11 is present, then the other is required.</li> <li>5 If either LIN12 or LIN13 is present, then the other is required.</li> <li>6 If either LIN14 or LIN15 is present, then the other is required.</li> <li>7 If either LIN16 or LIN17 is present, then the other is required.</li> <li>8 If either LIN18 or LIN19 is present, then the other is required.</li> <li>9 If either LIN20 or LIN21 is present, then the other is required.</li> <li>10 If either LIN22 or LIN23 is present, then the other is required.</li> <li>11 If either LIN24 or LIN25 is present, then the other is required.</li> <li>12 If either LIN26 or LIN27 is present, then the other is required.</li> <li>13 If either LIN28 or LIN29 is present, then the other is required.</li> <li>14 If either LIN30 or LIN31 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	1 LIN01 is the line item identification
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Dictionary for a complete list of IDs.</li> <li>2 LIN02 through LIN31 provides for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>

#### Data Element Summary

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	LIN01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set. Line number.	AN 1/20
Must Use	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number	ID 2/2
Must Use	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service <a href="#">Sanmina's Part number</a>	AN 1/48
	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) EC Engineering Change Level	ID 2/2
	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service Sanmina's Part Revision Number	AN 1/48
Must Use	LIN06	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) MF Manufacturer	ID 2/2
Must Use	LIN07	234	<b>Product/Service ID</b> Identifying number for a product or service Manufacturer Name	AN 1/48



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Must Use	<b>LIN08</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) MG Manufacturer's Part Number	<b>ID 2/2</b>
Must Use	<b>LIN09</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service Manufacturer's Part Number	<b>AN 1/48</b>

LIN~1~BP~46L5055~EC~5V~MF~XYZ Corporation~MG~1234123232 }

**Segment:** **QTY** Quantity  
**Position:** 320  
**Loop:** QTY  
**Level:** Detail  
**X12 Usage:** Optional  
**Sanmina Usage:** Mandatory  
**Max Use:** >1  
**Purpose:** To specify quantity information  
**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.  
 2 Only one of QTY02 or QTY04 may be present.  
**Semantic Notes:** 1 QTY04 is used when the quantity is non-numeric.  
**Comments:**

**Data Element Summary**

<b>Sanmina Required</b>	<b>Ref. Desc.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
Must Use	<b>QTY01</b>	<b>673</b>	<b>Quantity Qualifier</b> Code specifying the type of quantity 34 Ending Inventory Balance QH On Hold Quantity QB Issued Quantity from Hub 87 Quantity Received into Hub 63 On Order Quantity 33 Quantity Available for Sale	<b>ID 2/2</b>
Must Use	<b>QTY02</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>R 1/15</b>

QTY~34~525 }  
 QTY~QH~100 }  
 QTY~QB~50 }  
 QTY~87~75 }  
 QTY~63~100 }  
 QTY~33~375 }

**Segment:** **UIT** Unit Detail  
**Position:** 020  
**Loop:** LIN  
**Level:** Detail  
**X12 Usage:** Optional  
**Sanmina Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify item unit data  
**Syntax Notes:** 1 If UIT03 is present, then UIT02 is required.  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	UIT01	C001	<b>Composite Unit of Measure</b> To identify a composite unit of measure (See Figures Appendix for examples of use)	
		355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	ID 2/2

UIT~EA }

**Segment:** **CTT** Transaction Totals  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**X12 Usage:** Optional  
**Sanmina Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit a hash total for a specific element in the transaction set  
**Syntax Notes:** 1 If either CTT03 or CTT04 is present, then the other is required.  
 2 If either CTT05 or CTT06 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

**Data Element Summary**

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	CTT01	354	<b>Number of Line Items</b> Total number of line items in the transaction set Number of LIN segments in this transaction set.	<b>N0 1/6</b>

CTT~1 }

**Segment:** **SE** Transaction Set Trailer  
**Position:** 020  
**Loop:**  
**Level:** Summary  
**X12 Usage:** Mandatory  
**Sanmina Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** 1 SE is the last segment of each transaction set.

**Data Element Summary**

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	N0 1/10
Must Use	SE02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	AN 4/9

SE~17~1979}

**Example: 846 Inventory Inquiry/Advice**

ISA~00~                    ~00~                    ~01~322341109  
~01~SANMINACORP        ~190811~0014~ ~00401~000001979~0~P~>}  
GS~IB~322341109~ SANMINACORP ~20190811~0014~1979~X~004010}  
ST~846~1979}  
BIA~00~CM~10353~20190811~~11}  
CUR~BY~USD}  
DTM~007~20190811~2300~GM}  
N1~ST~EMS PLANT E88 ~92~SAN003}  
N1~SE~XYZ Corporation~92~XYZ001}  
LIN~1~BP~46L5055~EC~5V~MF~XYZ Corporation~MG~1234123232}  
QTY~34~525}  
UIT~EA}  
QTY~QH~100}  
UIT~EA}  
QTY~QB~50}  
UIT~EA}  
QTY~87~75}  
UIT~EA}  
QTY~63~100}  
UIT~EA}  
QTY~33~375}  
UIT~EA}  
SE~20~1979}  
GE~1~1979}  
IEA~1~000001979}