



SANMINA CORPORATION

**INVOICE
INBOUND**

810

VERSION

004010

Prepared By : Sanmina Information Technology & Services
Date : February 26, 2020
Version : 11

810 Invoice

Functional Group ID=**IN**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Heading:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina Required	Max Use	Loop Repeat	Notes and Comment
010	ST	Transaction Set Header	M	Must Use	1		
020	BIG	Beginning Segment for Invoice	M	Must Use	1		
040	CUR	Currency	O	Must Use	1		
		LOOP ID - N1				200	
070	N1	Name	O	Must Use	1		
140	DTM	Date/Time Reference	O	Must Use	10		

Detail:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina Required	Max Use	Loop Repeat	Notes and Comment
		LOOP ID - IT1				200000	
010	IT1	Baseline Item Data (Invoice)	O		1		S1, S2
		LOOP ID - PID				1000	
060	PID	Product/Item Description	O		1		
120	REF	Reference Identification	O		>1		S2

Summary:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina Required	Max Use	Loop Repeat	Notes and Comment
010	TDS	Total Monetary Value Summary	M	Must Use	1		
		LOOPID-SAC				25	
040	SAC	Service, Promotion, Allowance, or Charge Information	O		1		
070	CTT	Transaction Totals	O	Must Use	1		T1
080	SE	Transaction Set Trailer	M	Must Use	1		

Transaction Set Notes

T1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

Sanmina Notes

S1. Purchase Order line number is mandatory and must match the original Sanmina line number sent.
 S2. If sending invoice for an ITEM then IT1 and REF are mandatory. If sending invoice for only TAX, FREIGHT or MISCELLANEOUS charges and no ITEM lines then IT1 and REF are not mandatory.

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) 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	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 810 Invoice	ID 3/3
Must Use	ST02	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	AN 4/9

ST~810~134810012 }

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
X12 Usage: Mandatory
Sanmina Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Syntax Notes:
Semantic Notes:

- 1 BIG01 is the invoice issue date.
- 2 BIG03 is the date assigned by the purchaser to purchase order.
- 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments:

- 1 BIG07 is used only to further define the type of invoice when needed.

Sanmina Comments:

- 1 Purchase Order number must match the original Sanmina purchase order number sent. This includes case sensitivity for alpha characters. IE: if alpha characters are sent in caps then they must come back in caps.

Data Element Summary

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BIG01	373	Date Date expressed as CCYYMMDD Invoice Issue Date	DT 8/8
Must Use	BIG02	76	Invoice Number Identifying number assigned by issuer	AN 1/22
Must Use	BIG03	373	Date Date expressed as CCYYMMDD Purchase Order Date	DT 8/8
Must Use	BIG04	324	Purchase Order Number <i>Purchase Order should match Sanmina's original purchase order number sent.</i>	AN 1/22
	BIG05	328	Release Number <i>If the original transaction was a Blanket Release PO, the PO release number should be sent in this field. If the original transaction was a Discrete PO with no Release Number, please leave this field as null.</i>	AN 1/30
Must Use	BIG07	640	Transaction Type Code Code specifying the type of transaction. DI Debit invoice	ID 2/2

No Release # example:

BIG~20110120~85940614~20110116~B502365HR~~~DI}

Release # in BIG05 example:

BIG~20110120~85940614~20110116~B502365HR~5~~DI}

Segment: **CUR** Currency
Position: 040
Loop:
Level: Heading
X12 Usage: Optional
Sanmina Usage: Must Use
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.

Semantic Notes:
Comments:

Data Element Summary

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

CUR~BY~USD }

Segment: **N1** Name
Position: 070
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.
- 3 N1 Segment with N101 of ST is Mandatory with the right Ship-To Code for N104

Please use the following URL to find a complete list of ship to codes that may be used by Sanmina:
<https://www.sanmina.com/partners/partner-programs/>

Scroll and look for PDF document “Ship to Address Codes”.

Data Element Summary

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual RE Remit To ST Ship-To	ID 2/3
Must Use	N102	93	Name Free-form name	AN 1/60
Must Use	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 91 Assigned by Seller or Seller’s Agent 92 Assigned by Buyer	ID 1/2
Must Use	N104	67	Identification Code Code identifying a party or other code <i>Vendor’s Remit to code. Must be unique for each remit-to used by the vendor.</i> <i>Ship-To Plant code when N101 is ST</i>	AN 2/80

N1~RE~TRADING PARTNER~91~AA}
N1~ST~ABC Corporation~92~ABC123}

Segment: **DTM** Date/Time Reference
Position: 140
Loop: N1
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	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. 011 Shipped	ID 3/3
Must Use	DTM02	373	Date Date expressed as CCYYMMDD <i>Date product was shipped to Sanmina.</i>	DT 8/8

DTM~011~20110119}

- Segment:** **IT1** **Baseline Item Data (Invoice)**
- Position:** 010
- Loop:** IT1
- Level:** Detail
- X12 Usage:** Optional
- Sanmina Usage:** Optional
- Max Use:** 1
- Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions
- Syntax Notes:**
- 1 If any of IT102 IT103 or IT104 is present, then all are required.
 - 2 If either IT106 or IT107 is present, then the other is required.
 - 3 If either IT108 or IT109 is present, then the other is required.
- Semantic Notes:**
- 1 IT101 is the purchase order line item identification.
- Comments:**
- 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
 - 2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	IT101	350	Assigned Identification Numeric value assigned for differentiation within a transaction set. <i>Purchase Order Line Number should equal the Sanmina's line number sent on original order.</i>	R 1/20
Must Use	IT102	358	Quantity Invoiced Number of units invoiced (supplier units)	R 1/10
Must Use	IT103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code must be the same as that on the Purchase Order EA Each DZ Dozen FT Foot IN Inch	ID 2/2
Must Use	IT104	212	Unit Price Price per unit of product, service, commodity, etc.	R 1/17
	IT105	639	Basis of Unit Price Code Code identifying the type of unit price for an item PE Price per each PD Price per dozen PF Price per foot	ID 2/2
Must Use	IT106	235	Product/Service ID Qualifier 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	IT107	234	Product/Service ID Identifying number for a product or service <i>Sanmina's part number.</i>	AN 1/48
----------	--------------	------------	---	----------------

IT1~01~2000~EA~1.107~~BP~123456}

- Segment:** **PID** **Product/Item Description**
- Position:** 060
- Loop:** PID
- Level:** Detail
- X12 Usage:** Optional
- Sanmina Usage:** Optional
- Max Use:** 1
- Purpose:** To describe a product or process in coded or free-form format
- Syntax Notes:**
- 1 If PID04 is present, then PID03 is required.
 - 2 At least one of PID04 or PID05 is required.
 - 3 If PID07 is present, then PID03 is required.
 - 4 If PID08 is present, then PID04 is required.
 - 5 If PID09 is present, then PID05 is required.
- Semantic Notes:**
- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
 - 2 PID04 should be used for industry-specific product description codes.
 - 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
 - 4 PID09 is used to identify the language being used in PID05.
- Comments:**
- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
 - 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
 - 3 PID07 specifies the individual code list of the agency specified in PID03.

Data Element Summary

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	PID01	349	Item Description Type Code indicating the format of a description F Free Form	ID 1/1
	PID05	352	Description A free-form description to clarify the related data elements and their content	AN 1/80

PID~F~~~~Test part}

Segment: **REF** Reference Numbers
Position: 120
Loop: IT1
Level: Detail
X12 Usage: Optional
Sanmina Usage: Optional
Max Use: >1
Purpose: To specify identifying numbers.
Syntax Notes: 1 At least one of REF02 or REF03 is required.
Semantic Notes:
Comments: 1 If IT1 is used then this segment is mandatory.

Data Element Summary

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Information PK Packing Slip	ID 2/2
Must Use	REF02	127	Reference Number Packing Slip Number	AN 1/30

REF~PK~99999 }

Segment: **REF** Reference Numbers
Position: 120
Loop: IT1
Level: Detail
X12 Usage: Optional
Sanmina Usage: Optional
Max Use: >1
Purpose: To specify identifying numbers.
Syntax Notes: 1 At least one of REF02 or REF03 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	REF01	128	Reference Identification Qualifier Code qualifying the Reference Information L1 Letters or Notes	ID 2/2
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content.	AN 1/80

REF~L1~Another payment to follow}

Segment: **TDS** Total Monetary Value Summary
Position: 010
Loop:
Level: Summary
X12 Usage: Mandatory
Sanmina Usage: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Syntax Notes:
Semantic Notes:

- 1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
- 2 TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4 TDS04 indicates the total amount of terms discount.

Comments:

- 1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Data Element Summary

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	TDS01	610	Amount Monetary amount Total amount of invoice.	N2 1/15

TDS~239870 }

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 040
Loop:
Level: Summary
X12 Usage: Optional
Sanmina Usage: Optional
Max Use: 25
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge.
Syntax Notes: 1 R0203 – At least one of SAC02 or SAC 3 is required.
Semantic Notes: 1 SAC05 is the total amount for the service, promotion, allowance, or charge.
 2 If SAC05 is present with SAC07 or SAC08 then, SAC05 takes precedence.
 3 SAC08 is the allowance or charge rate per unit.
 4 If SAC02 is present then SAC05 is required.
Comments:

Data Element Summary

<u>Sanmina Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified. C Charge	ID 1/1
	SAC02	1300	Service, Promotion, Allowance, or Charge Code Code identifying the service, promotion, allowance or charge. D240 Freight H850 Tax ZZZZ Miscellaneous	ID 4/4
	SAC05	610	Amount Monetary amount	N2 1/15
	SAC08	118	Rate Rate expressed in the standard monetary denomination for the currency specified. <i>Only use this field when SAC02 = H850</i>	R 1/9

SAC~C~D240~~~20000}
 SAC~C~H850~~~11070~~~.05}
 SAC~C~ZZZZ~~~2400}

Segment: **CTT Transaction Totals**
Position: 070
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	Number of Line Items Total number of line items in the transaction set	N0 1/6

CTT~1 }

Segment: **SE** Transaction Set Trailer
Position: 080
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	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	N0 1/10
Must Use	SE02	329	Transaction Set Control Number 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~11~134810012}

Example: 810 Invoice with Item and special charges.

ISA~00~ ~00~ ~01~123456789 ~01~SANMINACORP
~110120~0305~U~00400~000013024~0~P}
GS~IN~123456789~SANMINACORP~20110120~0305~13481~X~004010}
ST~810~134810012}
BIG~20110120~85940614~20110116~B502365HR~5~~DI}
CUR~BY~USD}
N1~RE~TRADING PARTNER~91~AA}
N1~ST~ABC Corporation~92~ABC123}
DTM~011~20110119}
IT1~01~2000~EA~1.107~~BP~123456}
REF~PK~99999}
TDS~239870}
SAC~C~D240~~~5000}
SAC~C~H850~~~11070~~~.05}
SAC~C~ZZZZ~~~2400}
CTT~1}
SE~14~134810012}
GE~1~13481}
IEA~1~000013024}

Example: 810 Invoice with special charges.

ISA~00~ ~00~ ~01~123456789 ~01~SANMINACORP
~110120~0305~U~00400~000013024~0~P}
GS~IN~123456789~SANMINACORP~20110120~0305~13481~X~004010}
ST~810~134810012}
BIG~20110120~85940614~20110116~B502365HR~5~~DI}
CUR~BY~USD}
N1~RE~TRADING PARTNER~91~AA}
N1~ST~ABC Corporation~92~ABC123}
DTM~011~20110119}
TDS~18470}
SAC~C~D240~~~5000}
SAC~C~H850~~~11070~~~.05}
SAC~C~ZZZZ~~~2400}
CTT~1}
SE~12~134810012}
GE~1~13481}
IEA~1~000013024}