



**SANMINA
CORPORATION**

**INVOICE
INBOUND**

810

VERSION

004010

Prepared By : Sanmina Information Technology & Services
Date : October 14, 2013
Version : 10

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 <i>Purchase Order Date</i> | 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.
- 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

| <u>Sanmina Required</u> | <u>Ref. Desc.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-------------------------|-------------------|---------------------|--|-------------------|
| 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

Note: The following URL is where you will find a complete list of ship to codes that may be used by Sanmina.

<http://sanmina.com/partners/programs.html>

Scroll to the bottom of the screen 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.
 - 4 If either IT110 or IT111 is present, then the other is required.
 - 5 If either IT112 or IT113 is present, then the other is required.
 - 6 If either IT114 or IT115 is present, then the other is required.
 - 7 If either IT116 or IT117 is present, then the other is required.
 - 8 If either IT118 or IT119 is present, then the other is required.
 - 9 If either IT120 or IT121 is present, then the other is required.
 - 10 If either IT122 or IT123 is present, then the other is required.
 - 11 If either IT124 or IT125 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}