SANMINA-SCI

CORPORATION

PURCHASE ORDER
OUTBOUND

850

VERSION

004010

Prepared By : Sanmina-SCI Information Technology & Services
Date   : August 2, 2011
Version   : 9

850 Purchase Order

Functional Group ID=PO

Introduction:

This standard contains the format and establishes the data contents of the Purchase Order Transaction Set (850) 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 placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

Notes:

1. The term "award instrument" used in this convention includes, but is not limited to, the following terms: Agreement, Blanket Purchase Agreement, Contract, Basic Agreement, Basic Ordering Agreement, Grant, Indefinite Delivery Indefinite Quantity Contract, Purchase Order, Indefinite Delivery Definite Quantity Contract, Requirements Contract, Letter Contract, Task Order, Lease, Release, Call, and Delivery Order.

2. This transaction set is used to issue an original award instrument. If buyer initiated changes need to be made to an award instrument, use the Purchase Order Change Request - Buyer Initiated, 860 transaction set. Seller requested changes are initiated using the Purchasing Order Change Acknowledgment/Request - Seller Initiated, 865 transaction set.

Heading:

Pos. No.	Seg. ID	Name	X12 Req	Sanmina-SCI Required	Max.Use	Loop Repeat	Notes and Comments
010	ST	Transaction Set Header	M	Must Use	1		
020	BEG	Beginning Segment for Purchase Order	M	Must Use	1		
040	CUR	Currency	O		1		
130	ITD	Terms of Sale/Deferred Terms of Sale	O		>1		
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O		12		
		LOOP ID - N1				200	
310	N1	Name	O	Must Use	1		
360	PER	Administrative Communications Contact	O		>1		

Detail:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina-SCI Required	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - PO1				100000	
010	PO1	Baseline Item Data	M	Must Use	1		N1
		LOOP ID - PID				1000	
050	PID	Product/Item Description	O		1		
170	TAX	Tax Reference	O		>1		
		LOOP ID - SCH				200	
295	SCH	Line Item Schedule	O	Must Use	1		N2

Summary:

Pos. No.	Seg. ID	Name	X12 Req.	Sanmina-SCI Required	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - CTT				1	
010	CTT	Transaction Totals	O	Must Use	1		N3
030	SE	Transaction Set Trailer	M	Must Use	1		

Transaction Set Notes

1. PO102 is required.
2. The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.
3. The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

Available characters: **A-Z, a-z, 0-9, ., -, +, {, }, [,], 9, 0, :, ;, %, |, <, >, !, ", $, ~, ^, &, #, =, |, @, ä, å, ö, Ä, Å, Ö, ÿ, ñ, Ñ**

Segment:	**ST** **Transaction Set Header**
Position:	010
Loop:	
Level:	Heading
X12 Usage:	Mandatory
Sanmina-SCI 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

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
Must Use	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 850 X12.1 Purchase Order	**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~850~1672{
```

Segment: **BEG** Beginning Segment for Purchase Order
Position: 020
Loop:
Level: Heading
X12 Usage: Mandatory
Sanmina-SCI Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates
Syntax Notes:
Semantic Notes: **1**   BEG05 is the date assigned by the purchaser to purchase order.
Comments:

Data Element Summary

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
Must Use	BEG01	353	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original 06 Confirmation	**ID 2/2**
Must Use	BEG02	92	**Purchase Order Type Code** Code identifying the type of Purchase Order SA Stand Alone PO RL Release	**ID 2/2**
Must Use	BEG03	324	**Purchase Order Number** Purchase Order Number assigned by the Buyer.	**AN 1/22**
	BEG04	328	**Release Number** Number identifying a release against a Blanket Purchase Order previously placed by the parties involved in the transaction	**AN 1/30**
Must Use	BEG05	373	**Purchase Order Date** Date of the Purchase Order, if BEG02 is RL (release) this field contains the date of the Release.	**DT 8/8**

```
BEG~00~SA~M29823406~0~20110916{
```

Segment:		**CUR** Currency		
Position:	040			
Loop:				
Level:	Heading			
X12 Usage:	Optional			
Sanmina-SCI 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

Sanmina-SCI 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:	**ITD** Terms of Sale/Deferred Terms of Sale
Position:	130
Loop:	
Level:	Heading
X12 Usage:	Optional
Sanmina-SCI Usage:	Optional
Max Use:	5
Purpose:	To specify terms of sale
Syntax Notes:	**1** If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
	2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
	3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:	
Comments:	**1** If the code in ITD01 is "04", then ITD09 is required and either ITD10 or ITD11 is required. If the code in ITD01 equals "05", then ITD06 or ITD07 is required.

Data Element Summary

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
Must Use	**ITD01**	**336**	**Terms Type Code** Code identifying type of payment terms 14 Previously Agreed Upon	**ID 2/2**
Must Use	**ITD02**	**333**	**Terms Basis Date Code** Code Identifying the beginning of the terms period. 3 Invoice Date	**ID 2/2**
Must Use	**ITD12**	**352**	**Description** A free form Description to clarify the related data elements and their contents.	**AN 1/80**

```
ITD~14~3~~~~~~~~~~2/20 NET 45{
```

Segment:	**TD5** Carrier Details (Routing Sequence/Transit Time)
Position:	240
Loop:	
Level:	Heading
X12 Usage:	Optional
Sanmina-SCI Usage:	Optional
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:	1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
	2 If TD502 is present, then TD503 is required.
	3 If TD507 is present, then TD508 is required.
	4 If TD510 is present, then TD511 is required.
	5 If TD513 is present, then TD512 is required.
	6 If TD514 is present, then TD513 is required.
	7 If TD515 is present, then TD512 is required.
Semantic Notes:	1 TD515 is the country where the service is to be performed.
Comments:	1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Data Element Summary

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
	TD501	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement O Origin Carrier (Air, Motor, or Ocean)	**ID 1/2**
	TD505	**387**	**Routing** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity Carrier name	**AN 1/35**

```
TD5~O~~~~FEDEX_GROUND{
```

Segment:	**N1** Name
Position:	310
Loop:	N1
Level:	Heading
X12 Usage:	Optional
Sanmina-SCI 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 The following URL is where you will find a complete list of ship to codes that may be used by Sanmina-SCI.
	http://sanmina-sci.com/partners/programs.html
	Scroll to the bottom of the screen and look for PDF document Ship to Address Codes.

Data Element Summary

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity or a physical location. BT Bill-to-Party BY Buying Party (Purchaser) ST Ship To SE Selling Party	**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) 1 D-U-N-S Number of Sanmina-SCI. 92 Assigned by Buyer or Buyer's Agent.	**ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code Identifying a Party or Other Code. DUNS Number when N101 is BY. Sanmina-SCI's location code when N101 is BT or ST. Sanmina-SCI's Supplier code for vendor when N101 is SE.	**AN 2/80**

```
N1~BT~ACCOUNTS PAYABLE~92~NASSC-AP{
N1~BY~SANMINA-SCI CORPORATION~1~79-877-8395{
N1~ST~EMS PLANT E29 (Huntsville)~92~443417{
N1~SE~TRADING PARTNER~92~ABC123{
```

Segment:	**PER** Administrative Communications Contact		
Position:	360		
Loop:	N1		
Level:	Heading		
X12 Usage:	Optional		
Sanmina-SCI Usage:	Optional		
Max Use:	>1		
Purpose:	To identify a person or office to whom administrative communications should be directed		
Syntax Notes:	1	If either PER03 or PER04 is present, then the other is required.	
	2	If either PER05 or PER06 is present, then the other is required.	
	3	If either PER07 or PER08 is present, then the other is required.	
Semantic Notes:			
Comments:			

Data Element Summary

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
Must Use	**PER01**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named BD Buyer	**ID 2/2**
	PER02	**93**	**Name** Free-form name	**AN 1/60**
	PER03	**365**	**Communication Number Qualifier** Code Identifying the type of communication number TE Telephone	**ID 2/2**
	PER04	**364**	**Communication Number** Complete communications number including country or area code when applicable	**AN 1/80**
	PER05	**365**	**Communication Number Qualifier** Code Identifying the type of communication number EM Email Address	**ID 2/2**
	PER06	**364**	**Communication Number** Email Address of the contact person.	**AN 1/80**

PER~BD~Smith, John ~TE~(603)555-2237~EM~john.smith@sanmina-sci.com{

Segment:	**PO1** Baseline Item Data
Position:	010
Loop:	PO1
Level:	Detail
X12 Usage:	Mandatory
Sanmina-SCI Usage:	Mandatory
Max Use:	1
Purpose:	To specify basic and most frequently used line item data
Syntax Notes:	1 If PO103 is present, then PO102 is required.
	2 If PO105 is present, then PO104 is required.
	3 If either PO106 or PO107 is present, then the other is required.
	4 If either PO108 or PO109 is present, then the other is required.
	5 If either PO110 or PO111 is present, then the other is required.
	6 If either PO112 or PO113 is present, then the other is required.
	7 If either PO114 or PO115 is present, then the other is required.
	8 If either PO116 or PO117 is present, then the other is required.
	9 If either PO118 or PO119 is present, then the other is required.
	10 If either PO120 or PO121 is present, then the other is required.
	11 If either PO122 or PO123 is present, then the other is required.
	12 If either PO124 or PO125 is present, then the other is required.
Semantic Notes:	
Comments:	1 See the Data Element Dictionary for a complete list of IDs.
	2 PO101 is the line item identification.
	3 PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
Must Use	PO101	350	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set Sanmina-SCI's Purchase Order line number.	**AN 1/20**
Must Use	PO102	330	**Quantity Ordered** Quantity Ordered	**R 1/15**
Must Use	PO103	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	**ID 2/2**
Must Use	PO104	212	**Unit Price** Price per unit of product, service, commodity, etc.	**R 1/17**
Must Use	PO106	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	**AN 2/2**
Must Use	PO107	234	**Product/Service ID** Identifying number for a product or service. Sanmina-SCI's Part Number	**AN 1/48**
	PO108	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive	**AN 2/2**

			number used in Product/Service ID (234) EC Engineering Change Level	
	PO109	**234**	**Product/Service ID** Identifying number for a product or service. Sanmina-SCI's Part Revision Number	**AN 1/48**
Must Use	**PO110**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) MG Manufacturer's Part Number	**AN 2/2**
Must Use	**PO111**	**234**	**Product/Service ID** Identifying number for a product or service. Manufacturer's Part Number	**AN 1/48**

```
PO1~1~1500~EA~5.12~~BP~LF12345~EC~C~MG~74HC6789-T{
```

Segment:	**PID** Product/Item Description
Position:	050
Loop:	PID
Level:	Detail
X12 Usage:	Optional
Sanmina-SCI 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

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

```
PID~F~~~~PKG TAPE & REEL{
```

Segment:	**TAX** Tax Reference
Position:	291
Loop:	PO1
Level:	Detail
X12 Usage:	Optional
Sanmina-SCI Usage:	Optional
Max Use:	>1
Purpose:	To provide data required for proper notification/determination of applicable taxes applying to the transaction or business described in the transaction
Syntax Notes:	1 At least one of TAX01 or TAX03 is required.
	2 If either TAX02 or TAX03 is present, then the other is required.
	3 If either TAX04 or TAX05 is present, then the other is required.
	4 If either TAX06 or TAX07 is present, then the other is required.
	5 If either TAX08 or TAX09 is present, then the other is required.
	6 If either TAX10 or TAX11 is present, then the other is required.
Semantic Notes:	
Comments:	1 Tax ID number is, in many instances, referred to as a Tax Exemption Number. The paired (combined) use of data elements 309 and 310 provides for the designation of five taxing jurisdictions.
	2 TAX01 is required if tax exemption is being claimed.

Data Element Summary

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
Must Use	**TAX01**	**325**	**Tax Identification Number** Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number Sanmina-SCI's Tax Identification Number	**AN 1/20**
Must Use	**TAX12**	**441**	**Tax Exempt Code** Code identifying exemption status from sales and use tax 1 Yes (Tax Exempt) 2 No (Not Tax Exempt)	**ID 1/1**

```
TAX~77-0228183~~~~~~~~~~~2{
```

Segment:	**SCH** Line Item Schedule			
Position:	295			
Loop:	SCH			
Level:	Detail			
X12 Usage:	Optional			
Sanmina-SCI Usage:	Mandatory			
Max Use:	200			
Purpose:	To specify the data for scheduling a specific line-item			
Syntax Notes:	1 If SCH03 is present, then SCH04 is required.			
	2 If SCH08 is present, then at least one of SCH09 or SCH10 is required.			
	3 If SCH09 is present, then SCH08 is required.			
	4 If SCH10 is present, then SCH08 is required.			
Semantic Notes:	1 SCH12 is the schedule identification.			
Comments:	1 SCH05 specifies the interpretation to be used for SCH06 and SCH07.			

Data Element Summary

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
Must Use	SCH01	380	**Quantity** Numeric value of quantity	**R 1/15**
Must Use	SCH02	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.	**ID 2/2**
	SCH03	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual ST Ship To	**ID 2/3**
	SCH04	93	**Name** Free-form name Sanmina-SCI's Internal code used to identify Ship-To Location.	**AN 1/60**
Must Use	SCH05	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 002 Delivery Requested	**ID 3/3**
Must Use	SCH06	373	**Date** Date expressed as CCYYMMDD Date shipment requested to arrive at Sanmina-SCI.	**DT 8/8**
Must Use	SCH08	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 069 Promised Date	**ID 3/3**
Must Use	SCH09	373	**Date** Date expressed as CCYYMMDD Date Supplier confirms shipment to arrive at Sanmina-SCI.	**DT 8/8**

```
SCH~1500~EA~~~002~20110916~~069~20110916{
```

Segment:	**CTT** **Transaction Totals**
Position:	010
Loop:	CTT
Level:	Summary
X12 Usage:	Optional
Sanmina-SCI 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

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
Must Use	**CTT01**	**354**	**Number of Line Items** Total number of line items in the transaction set Number of PO1 segments in this transaction set.	**N0 1/6**

```
CTT~1{
```

Segment:	**SE** **Transaction Set Trailer**
Position:	030
Loop:	
Level:	Summary
X12 Usage:	Mandatory
Sanmina-SCI 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

Sanmina-SCI Required	Ref. Desc.	Data Element	Name	Attributes
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~17~1672{
```

Example: 850 Purchase Order.

```
ISA~00~            ~00~            ~01~SANMINACORP    ~01~012345678
~110916~0702~U~00401~000004449~0~P~>{
GS~PO~SANMINACORP~012345678~20110916~0702~1173~X~004010{
ST~850~1672{
BEG~00~SA~M29823406~0~20110916{
CUR~BY~USD{
ITD~14~3~~~~~~~~~~~2/20 NET 45{
TD5~O~~~~FEDEX_GROUND{
N1~BT~ACCOUNTS PAYABLE~92~NASSC-AP{
N1~BY~SANMINA-SCI CORPORATION~1~79-877-8395{
N1~ST~EMS PLANT E29 (Huntsville)~92~443417{
PER~BD~Smith, John~TE~(603)555-2237~EM~john.smith@sanmina-sci.com{
N1~SE~TRADING PARTNER~92~ABC123{
PO1~1~1500~EA~5.12~~BP~LF12345~EC~C~MG~74HC6789-T{
PID~F~~~~PKG  TAPE & REEL{
TAX~77-0228183~~~~~~~~~~~2{
SCH~1500~EA~~~002~20110916~~069~20110916{
CTT~1{
SE~16~1672{
GE~1~1173{
IEA~1~000004449{
```