



**SANMINA-SCI
CORPORATION**

**PURCHASE ORDER
OUTBOUND**

850

VERSION

004010

Prepared By : Sanmina-SCI Information Technology & Services
Date : November 10, 2004
Version : 8

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:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>X12 Req.</u>	<u>Sanmina-SCI Required</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
		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

<u>Sanmina-SCI 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 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

<u>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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 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) then this field contains the date of the Release.	DT 8/8

BEG~00~SA~M29823406~0~20020916{

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

<u>Sanmina-SCI 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: **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

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

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

Data Element Summary

<u>Sanmina-SCI 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 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.	AN 2/80

```

N1~BT~ACCOUNTS PAYABLE~92~CORP-AP{
N1~BY~SANMINA-SCI CORPORATION~1~79-877-8395{
N1~ST~EMS PLANT E29 (Huntsville)~92~HSV-PL02{
N1~SE~TRADING PARTNER~92~A123{
    
```

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

<u>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named BD Buyer OC Order Contact	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~Bowles, Jerry ~TE~(603)896-2237~EM~jerry.bowles@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

<u>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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 number used in Product/Service ID (234) EC Engineering Change Level	AN 2/2
	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

PO1~1~2~EA~5.12~~BP~121751680~EC~C~MG~74HC2324-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

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

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

<u>Sanmina-SCI Required</u>	<u>Ref. Desc.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
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 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 Shipment to Arrive at Sanmina-SCI.	DT 8/8

SCH~2~EA~ST~HSV~PL02~002~20020916~~069~20020916{

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

<u>Sanmina-SCI 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 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

<u>Sanmina-SCI 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~17~1672 {

Example: 850 Purchase Order.

ISA~00~ ~00~ ~01~SANMINACORP ~01~049159957
~020916~0702~U~00401~000004449~0~P~>{
GS~PO~SANMINACORP~049159957~20020916~0702~1173~X~004010{
ST~850~1672{
BEG~00~SA~M29823406~0~20020916{
CUR~BY~USD{
ITD~14~3~2/20 NET 45{
TD5~O~~~~FEDEX_GROUND{
N1~BT~ACCOUNTS PAYABLE~92~CORP-AP{
N1~BY~SANMINA-SCI CORPORATION~1~79-877-8395{
N1~ST~EMS PLANT E29 (Huntsville)~92~HSV-PL02{
PER~BD~Bowles, Jerry ~TE~(603)896-2237~EM~jerry.bowles@Sanmina-SCI.com{
N1~SE~TRADING PARTNER~92~ABC123{
PO1~1~2~EA~5.12~BP~121751680~EC~C~MG~74HC2324-T{
PID~F~~~~PKG TAPE & REEL{
TAX~77-0228183~~~~~2{
SCH~2~EA~ST~HSV-PL02~002~20020916~~069~20020916{
CTT~1{
SE~16~1672{
GE~1~1173{
IEA~1~000004449{