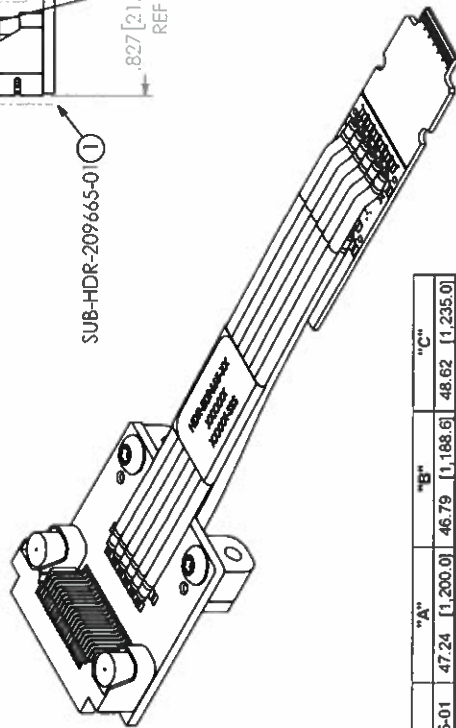
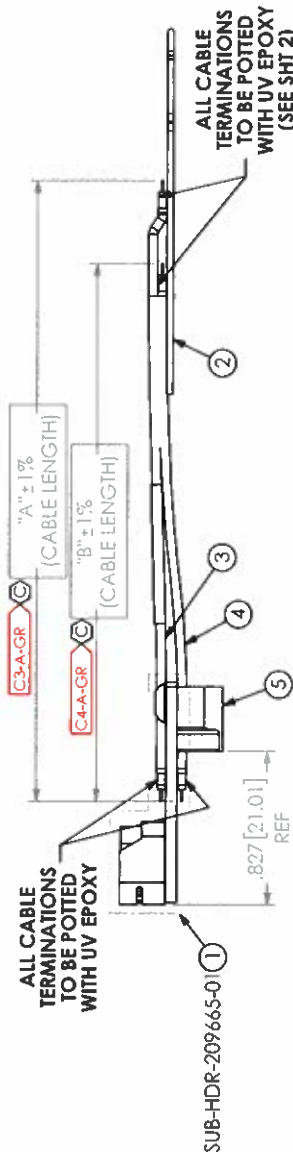
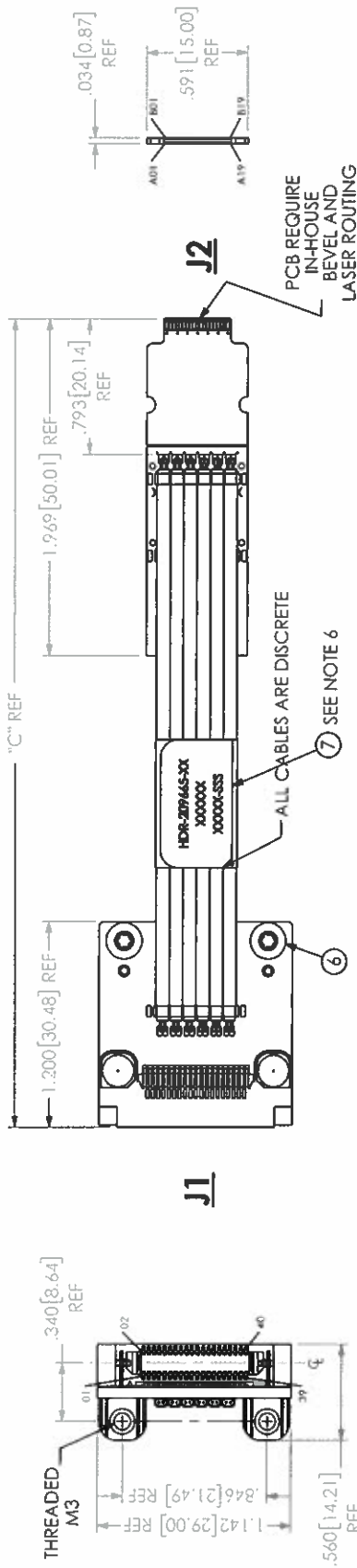


REVISION

REV	DATE	DESCRIPTION
0	12/20/2018	1. LAMBERT
1	12/20/2018	2. ECH-243879
2	12/20/2018	3. ECH-243879

*** CONCEPT DRAWING ***

THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING



PART #	"A"	"B"	"C"
HDR-209665-01	47.24 [1,200.0]	46.79 [1,188.6]	48.62 [1,235.0]

ITEM NO.	PART NUMBER	DESCRIPTION	QUANTITY	MATERIAL
1	SUB-HDR-209665-01	SUB ASSEMBLY	1	SUB ASSEMBLY
2	S-PCB-109290-HDR-01	SUB ASSEMBLY	1	SUB ASSEMBLY
3	SUB-TF-30100C-06-S-01-TB-0780-XXX X	TWINAX	1	SUB ASSEMBLY
4	SUB-TF-30100C-06-S-01-TB-0780-XXX X	TWINAX	1	SUB ASSEMBLY
5	CCS-204400-01-MP	ANCHOR BLOCK	2	BRASS
6	90910A783	SHCS	2	STAINLESS STEEL
7	HDRL-11	LABEL	1	SELF LAMINATING VINYL

NOTES:
1. PCB AND CONFIGURATION IS NOT STANDARD.
2. REPRESENTS A CRITICAL DIMENSION

3. PARTS TO BE PROCESSED PER SAMTEC WORKMANSHIP GUIDELINES
4. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED
5. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V
6. ITEM 7 TO BE CENTERED ON ITEM 3 AS SHOWN ITEM 7 TO CONTAIN:

LINE 1 - PART NUMBER "HDR-XXXXXX-XX"
LINE 2 - SHOP ORDER NUMBER "XXXXXX"
LINE 3 - DATE CODE SERIAL NUMBER "XXXXXX-SSS" WHERE "XXXXXX" IS DATE CODE & "SSS" IS UNIQUE SEQUENTIAL NUMBER FOR ASSEMBLY IN THE SHOP ORDER
RESETS EACH SHOP ORDER

7. FOR SUB-ASSEMBLY AND FINISHED GOOD PACKAGING REQUIREMENTS, REFERENCE SAMTEC PACKAGING STANDARD
8. TIGHTEN FASTENERS TO 1.4-1.7 IN-LBS (2 PLCS)

TOLERANCES DO NOT APPLY TO REFERENCE DIMENSIONS UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE IN INCHES.

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Samtec
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@samtec.com code: 55322

DO NOT SCALE DRAWING

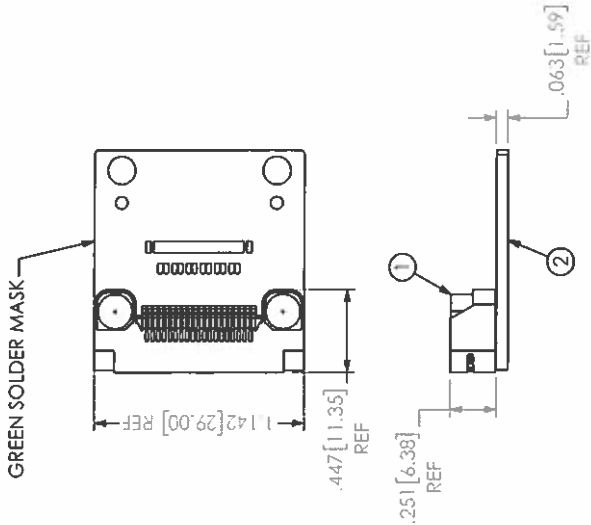
SHEET SCALE: 1:1

DESCRIPTION: CUSTOM HDR CABLE ASSEMBLY

DWG. NO.

HDR-209665-XX

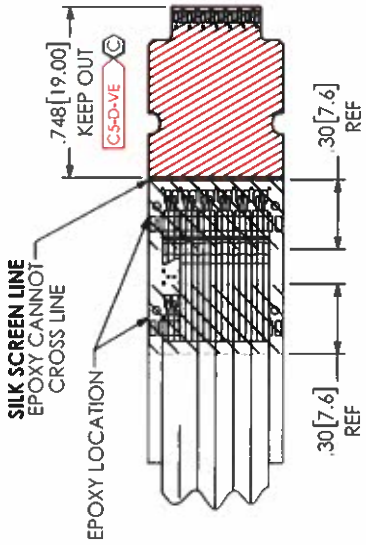
BY: RMSANTOS 12/20/2018 SHEET 1 OF 2



SUB-HDR-209665-01 BOM			
ITEM NO.	PART NUMBER	QUANTITY	MATERIAL
1	ERF8-020-01-S-D-RA-L	1	SOCKET
2	PCB-XXXXXX-HDR-01	1	PCB

CRITICAL DIMENSION INSPECTION	
INSTRUCTION TABLE	
ASSEMBLY	IN-PROCESS
OPERATION	INSPECTION
PREP CABLE	C3, C4
E-TEST	C1, C2
VISUAL	C5

EPOXY APPLICATION VIEW J2



J2 PCB VIEW

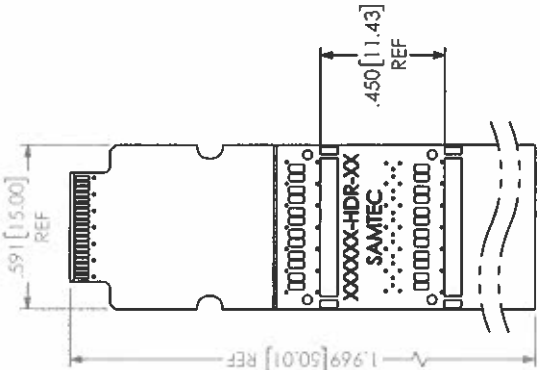


TABLE 2

SIGNAL MAPPING

J1	NAME	J2	J3	J1	NAME	J2	J3
1	GND	B1	-	2	GND	A1	-
3	SIG	B2	-	4	SIG	A2	-
5	SIG	B3	-	6	SIG	A3	-
7	GND	B4	-	8	GND	A4	-
9	SIG	B5	-	10	SIG	A5	-
11	SIG	B6	-	12	SIG	A6	-
13	GND	B7	-	14	GND	A7	-
15	SIG	B8	-	16	SIG	A8	-
17	SIG	B9	-	18	SIG	A9	-
19	GND	B10	-	20	GND	A10	-
21	SIG	B11	-	22	SIG	A11	-
23	SIG	B12	-	24	SIG	A12	-
25	GND	B13	-	26	GND	A13	-
27	SIG	B14	-	28	SIG	A14	-
29	SIG	B15	-	30	SIG	A15	-
31	GND	B16	-	32	GND	A16	-
33	SIG	B17	-	34	SIG	A17	-
35	SIG	B18	-	36	SIG	A18	-
37	GND	B19	-	38	GND	A19	-
39	NC	-	-	40	NC	-	-

ALL GND COMMON AND TIED TO CABLE SHIELDS
AND ERF8 LATCHES (2PLCS)

TABLE 3

NET COUNT		
TYPE	NETS	POINTS
POINT TO POINT	24	48
GND	1	30

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samtec

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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

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DESCRIPTION: CUSTOM HDR CABLE ASSEMBLY

DWG. NO

HDR-209665-XX

SHEET SCALE 1:2

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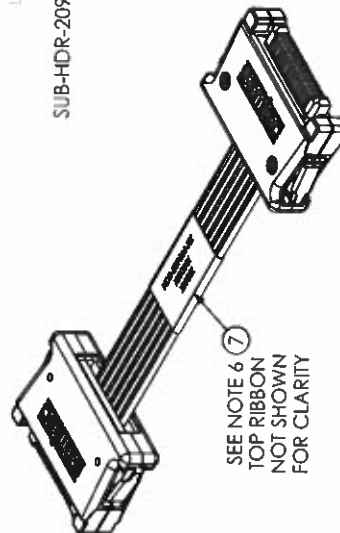
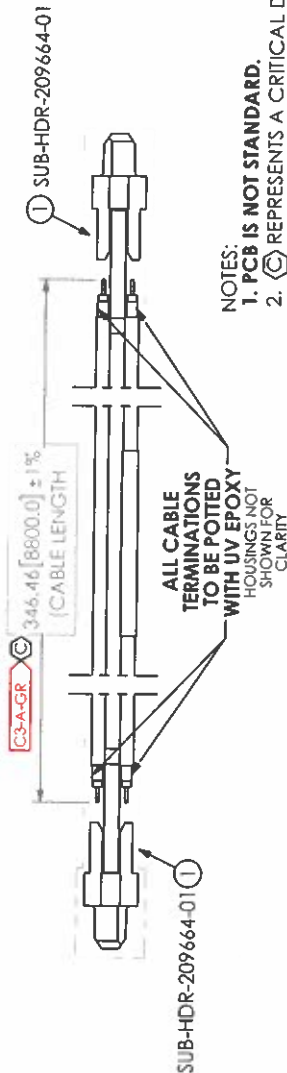
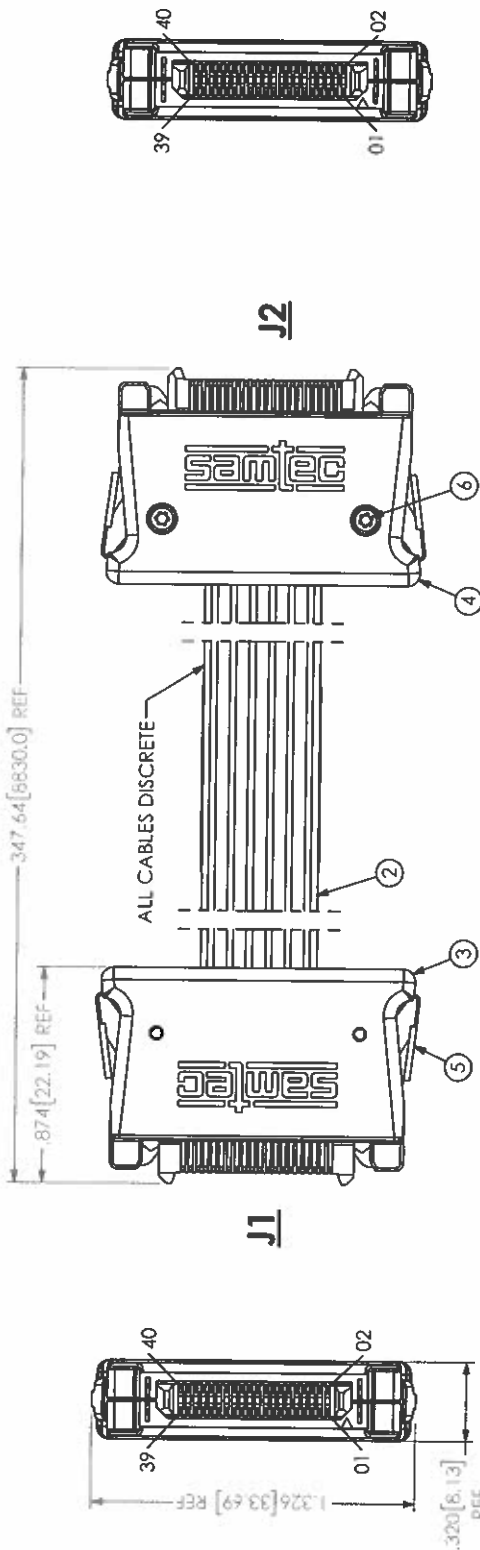
BY: RMSANTOS 12/20/2018 SHEET 2 OF 2

REVISION

Q	RS	J. LAMBERT
12/19/2018	ECN-343761	
ISSUE FOR REVIEW		

NOT RELEASED
FOR PRODUCTION
USE FOR QUOTING, PRELIMINARY
DESIGN, PROTOTYPING AND
INFORMATIONAL PURPOSES ONLY

**THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING**



NOTES:

1. PCB IS NOT STANDARD.
2. C REPRESENTS A CRITICAL DIMENSION.
3. PARTS TO BE PROCESSED PER SAMTEC WORKMANSHIP GUIDELINES.
4. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED.
5. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
6. ITEM 7 TO BE CENTERED ON ITEM 3 AS SHOWN. ITEM 7 TO CONTAIN:
LINE 1 - PART NUMBER "HDR-XXXXXX-XX"
LINE 2 - SHOP ORDER NUMBER "XXXXXX"
LINE 3 - DATE CODE "XXXXXX"
7. FOR SUB-ASSEMBLY AND FINISHED GOOD PACKAGING REQUIREMENTS, REFERENCE SAMTEC PACKAGING STANDARD.
8. REFER TO PREP-SPEC.PDF FOR CABLE PREP DIMENSIONS.
9. TIGHTEN FASTENERS TO 1.4-1.7 IN-LBS (4 PLC'S)

C1-D-ET
C2-D-ET

TABLE 1	
PART #	DESCRIPTION
HDR-209664-01	(AS SHOWN)

TOLERANCES DO NOT APPLY TO REFERENCE DIMENSIONS, UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE IN INCHES.

DECIMALS ANGLES
.XX: ±.01 [3] 2°
.XXX: ±.005 [3]
XXXX: ±.0020 [0.01]

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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55372

HDR-209664-XX BOM			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	SUB-HDR-209664-01	SUB ASSEMBLY	2
2	SUB-TF-30100C-06-S-T-1B-0780-XXXX	TWINAX	2
3	ERH-20-03-T	HOUSING	2
4	ERH-20-03-B	HOUSING	2
5	LTC-16-01	LATCH	4
6	STS-01	FASTENER	4
7	HDR-L-11	LABEL	1

DO NOT SCALE DRAWING

DESCRIPTION: CUSTOM HDR CABLE ASSEMBLY
DWG. NO: HDR-209664-XX
BY: RMSANTOS 12/18/2018 SHEET 1 OF 2

TABLE 2

SIGNAL MAPPING				
J1	NAME	J2	J3	J1 NAME J2
1	GND	2	-	GND 1
3	SIG	4	-	SIG 3
5	SIG	6	-	SIG 5
7	GND	8	-	GND 7
9	SIG	10	-	SIG 9
11	SIG	12	-	SIG 11
13	GND	14	-	GND 13
15	SIG	16	-	SIG 15
17	SIG	18	-	SIG 17
19	GND	20	-	GND 19
21	SIG	22	-	SIG 21
23	SIG	24	-	SIG 23
25	GND	26	-	GND 25
27	SIG	28	-	SIG 27
29	SIG	30	-	SIG 29
31	GND	32	-	GND 31
33	SIG	34	-	SIG 33
35	SIG	36	-	SIG 35
37	GND	38	-	GND 37
39	NC	40	-	NC 39

ALL GND COMMON AND TIED TO CABLE
SHIELDS AND ERM8 LATCHES

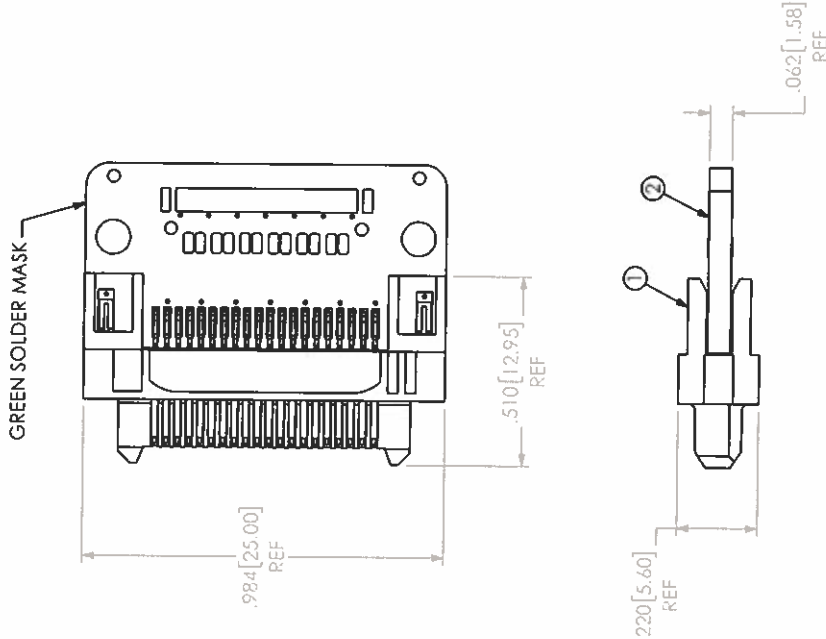
TABLE 3

NET COUNT		
TYPE	NETS	POINTS
POINT TO POINT	24	48
GND	1	32

CRITICAL DIMENSION INSPECTION
INSTRUCTION TABLE

ASSEMBLY OPERATION	IN-PROCESS INSPECTION
PREP CABLE	C3
E-TEST	C1, C2

F:\DWG\HDR_209664-01\HDR-209664-XX-HDR-209664-XX.SLDDRW



SUB-HDR-209664-01 BOM			
ITEM NO.	PART NUMBER	QUANTITY	MATERIAL TERMINAL
1	ERM8-020-01-S-D-EM2-SL	1	PCB
2	PCB-109008-HDR-01	1	PCB

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DESCRIPTION: CUSTOM HDR CABLE ASSEMBLY

DWG. NO.

HDR-209664-XX

SHEET SCALE: 2:1

BY: RMSANTOS 12/18/2018 SHEET 2 OF 2



LOS ALAMOS NATIONAL
LABS

Quote: 201812-14094

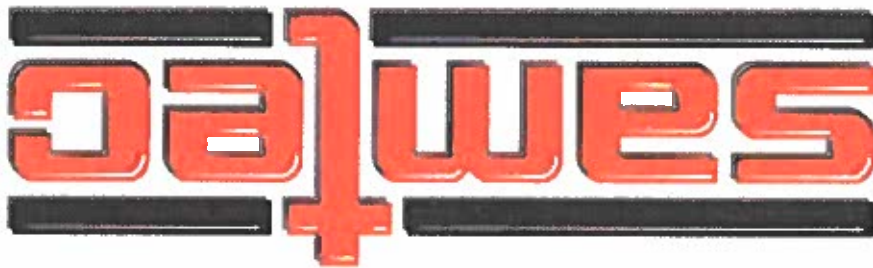
Date: December 20, 2018

LOS ALAMOS NATIONAL LABS
BIKINI ATOLL
LOS ALAMOS NM 87545
Attn: Sho Uemura
Phone/Email: (646) 833-8746 / meeg@lanl.gov

Currency: US DOLLARS (USD)
Selling Term: NET THIRTY
Freight Term: Ex-works/Samtec Factory

Samtec Part				Quantity	MOQ	Unit Price (OEM)	Expiration Date
HDR-209664-01 Like Part: ERCD-020-TED-TEU-1 Notes: - J1 and J2 END: ERM8-020-01-S-D-EM2-B ON CUSTOM TRANSITION PCB, ERH-40-03-T EXTENDED HOUSING WITH SQUEEZE LATCHES, 12 PAIRS OF 30AWG TWINAX, (2EA, TF-30100C-06-S-T-TB-0780) LENGTH: 8800mm HDR-209665-01 Like Part: ERCD-020 Engineering Charges: \$1,500.000 Notes: - J1 END: ERF8-020-01-S-D-RA-L ON CUSTOM PCB, WITH HARDWARE FOR PANEL MOUNT, J2 END: CUSTOM ECUE TRANSITION PCB (REF: PCB LIKE ONE USED IN HDR-185770-XX-ECUE) EPOXY ON CABLE TERMINATIONS ONLY CABLE: 12 PAIRS OF 30AWG TWINAX, SHINGLED (2EA, TF-30100C-06-S-T-TB-0780) LENGTH: 1200mm				80	5	\$500.000	Mar 20, 2019
					25	\$450.000	
					50	\$420.400	
				80	10	\$250.000	Mar 20, 2019
					25	\$225.000	
					50	\$190.490	

Samtec General HDR Statement of Work



CONTENT OWNER:
Samtec, Inc

All revisions to this document must be approved by the content owner before release.

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Outline Page
Contents

1 CUSTOMER DETAILS:

1.1 Program Information

This Statement of Work (SOW) is in reference to Samtec's general design and manufacturing processes for High Data Rate (HDR) copper cable assemblies.

This statement of work does not imply a contractual agreement, but is to be used to communicate the development assembly process provided by Samtec. This document will be used to communicate the technical details of the cable assembly (hereinafter referred to as "the Product").

Samtec's Standard Terms & Conditions are incorporated by reference into this SOW. This SOW and any related PO's shall be controlled thereby unless both parties have entered into a mutually agreeable and executed alternative Agreement.

1.2 BOM

Materials needed to complete the Product will be defined by the Samtec Product Drawing.

- "Customer Supplied" Materials:

- If customer supplied materials are required in the Product, upon receiving the customer PO, Samtec will provide the customer with zero dollar POs detailing all customer supplied materials required to complete an assembly. Samtec does not warrantee or is absolved of product reliability issues relating with defective materials shipped to Samtec from the customer, and other than visuals, Samtec will not inspect for defects in customer shipped materials. The estimated timeline, discussed in 2.7 and Appendix A, assumes Samtec will receive customer supplied material within the allotted time and the timeline will be adjusted if additional time is necessary.
- "Customer Specified" Materials:

 - Upon the customer's request, Samtec may agree to procure non-Samtec components directly from the manufacturer or through distribution. However, Samtec will not be held liable to any defective conditions not caused by the Samtec manufacturing process. Samtec will perform an incoming inspection of the critical dimensions only before issuing materials to the production work center.

2 PROTOTYPE DEVELOPMENT ASSEMBLY PHASE:

2.1 Description

This section defines the overall requirements of the Product and the intent of the completed assembly. Items below will provide high-level customer requirements, assembly timelines, tooling requirements, communication and development traceability, as controlled by Samtec.

2.2 Product Phase Definition

During the first time build of a new custom assembly, Samtec will be running all production and tooling under engineering control. Engineering control means that the assembly process, BOM or designs are not frozen and processes being run on the assembly floor are being performed by engineering personnel (or directed by engineering personnel). Any assembly process change that could affect the design of the product will be discussed with the customer.

2.3 Samtec Product Naming Convention

Samtec will assign new customer specific part numbers for quoting purposes and internal product traceability. The following bulleted items will define part number change guidelines during the development phase of the product:

- Samtec will generate a product part number such as HDR-XXXXXXXX-YY, where X's will be a customer specific 6-digit number and Y's will be a configuration style (typically used to denote differences in cable length). This top-level part number will be used for the formal quotation.
- Samtec will generate a component part number such as CCS-XXXXXXXX-YY for customer supplied components.

2.4 Samtec Manufacturing Guidelines

Unless otherwise noted, Samtec will use standard processes, procedures and materials common to Samtec during the assembly build.

- Workmanship Standards
 - Samtec will manufacture & inspect in accordance with the following guidelines, in order of precedence:
 - Samtec Workmanship Guideline & Boundary Documents
 - IPC-J-STD001F Class 2
 - IPC-A-610F Class 2
 - IPC/WHMA-A-620B Class 2
 - 100% of finished cable assemblies must pass the following tests prior to shipment:
 - Continuity (test for any opens)
 - Isolation (test for any shorts)
 - High Potential Voltage @ 300V (test for dielectric breakdown)
 - Production Consumables
 - Samtec will use the following materials or an equivalent substitute:
 - Lead-free solder (SAC 305)
 - Water soluble flux for board processing
 - No clean flux for cable attach
 - Epoxy as required (UV Curable, acrylic based)
 - Finished Good Materials
 - Samtec typically produces high speed cable assemblies using micro-coax and micro-twinax with a PVC jacket. If PVC is prohibited in the application, this detail must be made known during the design phase.
 - The typical operating temperature range for Samtec high speed cable assemblies is -25°C to +105°C.
 - The typical transition PCB dielectric is high temp FR4 IT180A.
 - Samtec high speed cable assemblies typically contain ferrous metals and would not be suited for non-magnetic applications without special consideration.
 - Packaging & Labeling
 - Samtec places a wrap-around label on the cable assembly with the following information:
 - Line 1 - Part Number
 - Line 2 - Order Number
 - Line 3 - Date Code "DDDDYY" (DDD = Day of Year, YY = Year)
 - Samtec packages the cable assemblies inside an anti-static bag per Samtec Packaging Standards.
 - The anti-static bag will contain a label with the Part Number & Qty of parts per bag.

2.5 Non-Recurring Expenses (NRE)

NRE's may be required to cover custom material fabrication, tooling, fixtures, qualification testing, etc., to process initial Engineering Prototype assemblies based on customer requirements. Typical NRE's are listed, but this will be defined on a case by case basis.

- Item 1: Custom Transition PCB's, \$1200

- Item 2: Board Processing Stencils & Fixtures, \$800

- Item 3: Custom E-test Fixtures, \$1000

- Item 4: Custom injection molded housings, \$6000

- If process or BOM changes are required during the prototype development phase that requires additional or modified materials and/or tooling, additional NRE fees may be reviewed between the customer and Samtec.

2.6 Communication

Below is a bulleted list of communication channels the customer can take to streamline and expedite the development phase.

- All technical information is managed by the Samtec HDR Application Engineer assigned to the program. Emails can be sent to HDR@samtec.com.

2.7 Timeline

This section provides a high level estimate of the timeline to complete major milestones. See Appendix A for a more detailed timeline. These timelines are initial estimates based on provided information and will not be a final timeline to complete the program. If a formal timeline is needed, Samtec can provide one after the PO is received.

- Manufacturing Lead Times start After Receipt of Order and Final Customer Design Approval:
 - Express setups have a typical lead time of 3-5 weeks
 - Intermediate setups have a typical lead time of 4-6 weeks
 - Complex setups have a typical lead time beyond 4-6 weeks
- If the finished assembly requires customer supplied materials, the consignment of these materials must be considered into the lead time.

2.8 Drawings and Documentation

Samtec generates detailed assembly drawings to communicate the assembly requirements to the customer and Samtec production team. These drawings should include dimensions with tolerances, pinouts, in-process views (as needed), as well as any other detail required to communicate the design intent. Samtec will also complete PCB artwork for the design of custom transition PCB's used in the cable assembly. Samtec retains the rights to the Gerber files used in the fabrication of custom PCB's.

- Samtec only uses Samtec generated drawings for the manufacturing process.
- The Samtec drawing takes precedence in the manufacturing process.
- If customer generated drawings are supplied to Samtec, they will be used for reference only during the concept & quoting stages.
- Customers should thoroughly review Samtec drawings to confirm they meet the design requirements of the customer.
- Samtec will not begin fabrication until the customer has explicitly stated their approval of the Samtec drawing.

All other documentation supplied by the customer including RFQs and other Requirements Documents will be reviewed by the appropriate Samtec team members including but not limited to the Application Engineer, Account Manager, Quality Manager, and the legal team as necessary.

3 INVOICING AND PRODUCT PHASE DEFINITION:

3.1 Description

This section defines the invoicing process Samtec will follow for NRE and Assembly Builds Invoicing

3.2 NRE:

- Samtec will provide the Customer with a quote that will have a line item for NRE. The Customer will provide Samtec with a Purchase Order (PO) that will include the release for NRE before any assemblies, including the first article assemblies, will be released. This line item for NRE will be invoiced in full upon receipt of the PO.

3.3 Assembly Units:

- Samtec will provide the Customer with a quote representing the Assembly Unit pricing.
- The quote will begin with a quantity break that covers the Minimum Order Value (MOV) for the HDR product in accordance with its complexity. More complex setups will require higher MOV.
- The customer should provide their Estimated Annual Usage (EAU) for the specific product if additional quantity breaks are required beyond the MOV.

4 PRODUCTION PHASE:

4.1 Description

When an agreement is reached between the Customer and Samtec that no further changes or development are required for product assemblies, the Product will be deemed "Released for Production". Potential changes are defined as processes, materials and tooling.

4.2 Product Traceability

- A numeric revision will be used on Samtec drawings during the initial builds when all aspects have not been fully qualified.
- An alpha revision will be used on Samtec drawings after the customer and Samtec have agreed that parts meet all requirements and the manufacturing process has been debugged and qualified.

5 SOW ACCEPTANCE

This SOW will be submitted with a quote for work to be performed at Samtec. Acceptance of this SOW can be made by receipt of a purchase order to the quote that is provided that calls out this SOW by title. Any changes to this document must be reviewed and approved by both parties and will require a revision change.

If a revision does occur but does not affect the overall quoted price, then email can be used confirming acceptance of the revision.

If a revision occurs and the change affects pricing, then a new quote will be issued along with the revised SOW.

6 APPENDIX A: SCHEDULE ** **

Milestone	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8
PO Received by Samtec								
Samtec Drawings Sent for Initial Review								
Design Discussions								
Final Samtec Drawings Submitted for Approval								
Samtec Drawings Approved								
Material & Tooling Procurement								
Board Processing, Cable Attach, Finishing Processes								

*SUBJECT TO CHANGE BASED ON COMPLEXITY OF DESIGN AND CUSTOMER RESPONSIVENESS.

**CUSTOM MATERIALS MAY HAVE LONGER LEAD TIMES THAN INDICATED IN THIS TIMELINE.