

# REVISION

A	AC	R Green
9/19/2018	ECN-337157	
RELEASE FOR PRODUCTION		

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

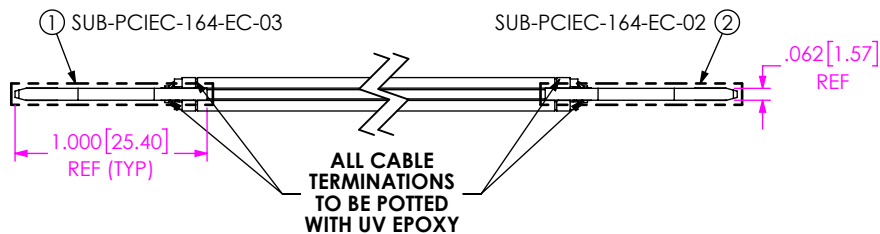
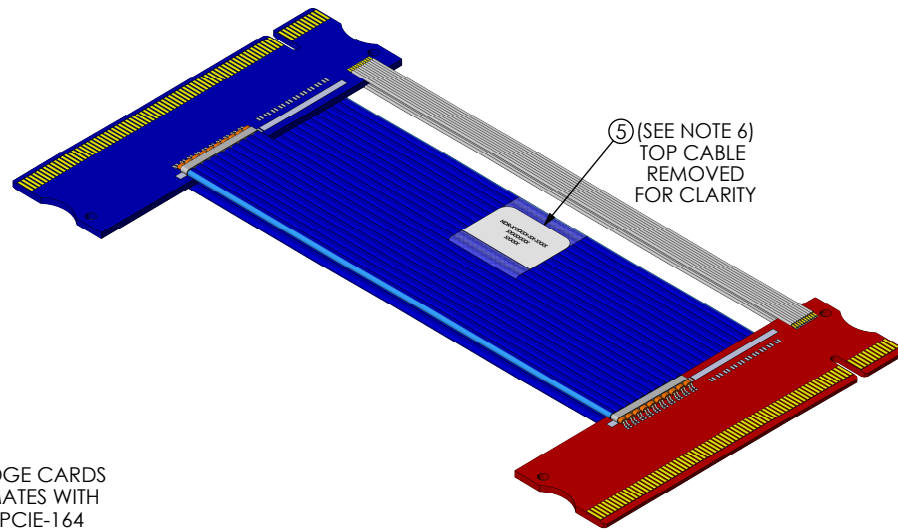
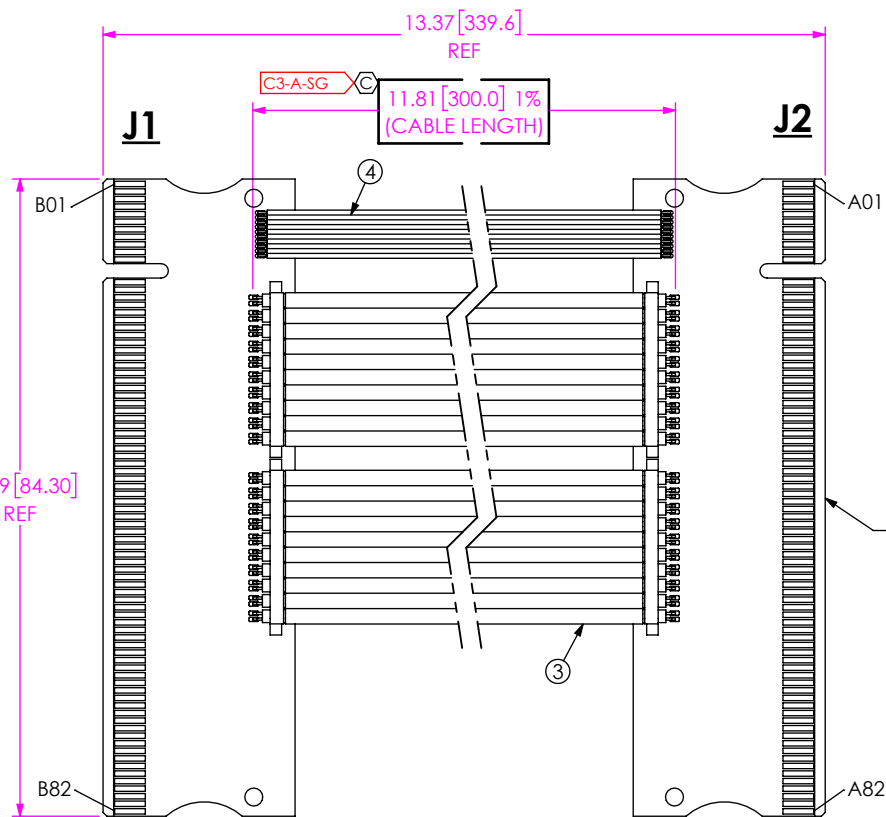


TABLE 1	
PART #	DESCRIPTION
HDR-208053-01-PCIEC	(AS SHOWN)

## NOTES:

1. LIMITED LENGTH TO MAINTAIN PCIE GEN 4 SPEED 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 5 TO BE CENTERED ON ITEM 3 AS SHOWN. ITEM 5 TO CONTAIN:  
LINE 1 - PART NUMBER "HDR-XXXXXX-XX"  
LINE 2 - SHOP ORDER NUMBER "XXXXXX"  
LINE 3 - DATE CODE "XXXXX".
7. FOR SUB-ASSEMBLY AND FINISHED GOOD PACKAGING REQUIREMENTS, REFERENCE SAMTEC PACKAGING STANDARD.
8. REFER TO PREP-SPEC.PDF FOR CABLE PREP DIMENSIONS. ASSEMBLY USES STANDARD PCB PREP.

C1-D-ET  
C2-D-ET

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

TOLERANCES ARE:  
DECIMALS .XX: ±.01 [.3]  
.XXX: ±.005 [.13]  
.XXXX: ±.0020 [.051]

ANGLES 2°

## PROPRIETARY NOTE

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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-208053-XX-PCIEC

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## HDR-208053-XX-PCIEC BOM

ITEM NO.	PART NUMBER	DESCRIPTION	QUANTITY	MATERIAL
1	SUB-PCIEC-164-EC-03	SUB ASSEMBLY	1	SUB ASSEMBLY
2	SUB-PCIEC-164-EC-02	SUB ASSEMBLY	1	SUB ASSEMBLY
3	SUB-TTF-30100CU-10-01-11.81	TWINAX CABLE	4	SUB ASSEMBLY
4	SUB-IDC-1-30-10-0250-12.00	CABLE	2	SUB ASSEMBLY
5	HDRL-11	LABEL	1	SELF LAMINATING VINYL

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ACCEPTANCE OF DRAWING  
ACCEPTED WITH DEVIATIONS LISTED

DATE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
CUSTOMER SIGNATURE: \_\_\_\_\_  
PRINTED NAME: \_\_\_\_\_  
PHONE NO: \_\_\_\_\_  
FAX NO: \_\_\_\_\_

# REVISION A

TABLE 2

SIDE B		SIDE A	
NAME	DESCRIPTION	NAME	DESCRIPTION
1	+12V 12 V power	PRSNT1#	Hot-plug detect
2	+12V 12 V power	+12V	12 V power
3	+12V 12 V power	+12V	12 V power
4	GND GROUND	GND	GROUND
5	SMCLK SM Bus Clock	JTAG2	TCK (test clock)
6	SMDATA SM Bus Data	JTAG3	TDI (test input data)
7	GND GROUND	JTAG4	TDO (test data output)
8	+3.3V 3.3 V power	JTAG5	TMS (test mode select)
9	JTAG1 TRST# (test reset)	+3.3V	3.3 V power
10	+3.3V aux 3.3 V aux power	+3.3V	3.3 V power
11	WAKE# Signal for link	PERST#	Fundamental reset
MECHANICAL KEY			
12	RSVD RESERVED	GND	GROUND
13	GND GROUND	REFCLK+	Reference clock
14	PETp0 Transmitter, DP	REFCLK-	Diff pair
15	PETn0 LANE 0	GND	GROUND
16	GND GROUND	PERp0	Receiver, DP
17	PRSNT2# Hot-plug detect	PERn0	LANE 0
18	GND GROUND	GND	GROUND
19	PETp1 Transmitter, DP	RSVD	RESERVED
20	PETn1 LANE 1	GND	GROUND
21	GND GROUND	PERp1	Receiver, DP
22	GND GROUND	PERn1	LANE 1
23	PETp2 Transmitter, DP	GND	GROUND
24	PETn2 LANE 2	GND	GROUND
25	GND GROUND	PERp2	Receiver, DP
26	GND GROUND	PERn2	LANE 2
27	PETp3 Transmitter, DP	GND	GROUND
28	PETn3 LANE 3	GND	GROUND
29	GND GROUND	PERp3	Receiver, DP
30	RSVD RESERVED	PERn3	LANE 3
31	PRSNT2# Hot-plug detect	GND	GROUND
32	GND GROUND	RSVD	RESERVED
33	PETp4 Transmitter, DP	RSVD	RESERVED
34	PETn4 LANE 4	GND	GROUND
35	GND GROUND	PERp4	Receiver, DP
36	GND GROUND	PERn4	LANE 4
37	PETp5 Transmitter, DP	GND	GROUND
38	PETn5 LANE 5	GND	GROUND
39	GND GROUND	PERp5	Receiver, DP
40	GND GROUND	PERn5	LANE 5
41	PETp6 Transmitter, DP	GND	GROUND
42	PETn6 LANE 6	GND	GROUND

43	GND	GROUND	PERp6	Receiver, DP
44	GND	GROUND	PERn6	LANE 6
45	PETp7	Transmitter, DP	GND	GROUND
46	PETn7	LANE 7	GND	GROUND
47	GND	GROUND	PERp7	Receiver, DP
48	PRSNT2#	Hot-plug detect	PERn7	LANE 7
49	GND	GROUND	GND	GROUND
50	PETp8	Transmitter, DP	RSVD	RESERVED
51	PETn8	LANE 8	GND	GROUND
52	GND	GROUND	PERp8	Receiver, DP
53	GND	GROUND	PERn8	LANE 8
54	PETp9	Transmitter, DP	GND	GROUND
55	PETn9	LANE 9	GND	GROUND
56	GND	GROUND	PERp9	Receiver, DP
57	GND	GROUND	PERn9	LANE 9
58	PETp10	Transmitter, DP	GND	GROUND
59	PETn10	LANE 10	GND	GROUND
60	GND	GROUND	PERp10	Receiver, DP
61	GND	GROUND	PERn10	LANE 10
62	PETp11	Transmitter, DP	GND	GROUND
63	PETn11	LANE 11	GND	GROUND
64	GND	GROUND	PERp11	Receiver, DP
65	GND	GROUND	PERn11	LANE 11
66	PETp12	Transmitter, DP	GND	GROUND
67	PETn12	LANE 12	GND	GROUND
68	GND	GROUND	PERp12	Receiver, DP
69	GND	GROUND	PERn12	LANE 12
70	PETp13	Transmitter, DP	GND	GROUND
71	PETn13	LANE 13	GND	GROUND
72	GND	GROUND	PERp13	Receiver, DP
73	GND	GROUND	PERn13	LANE 13
74	PETp14	Transmitter, DP	GND	GROUND
75	PETn14	LANE 14	GND	GROUND
76	GND	GROUND	PERp14	Receiver, DP
77	GND	GROUND	PERn14	LANE 14
78	PETp15	Transmitter, DP	GND	GROUND
79	PETn15	LANE 15	GND	GROUND
80	GND	GROUND	PERp15	Receiver, DP
81	PRSNT2#	Hot-plug detect	PERn15	LANE 15
82	RSVD	RESERVED	GND	GROUND

TABLE 3

## NET COUNT

TYPE	NETS	POINTS
POINT TO POINT	87	174
GND	1	136
3.3V (PWR)	1	8
12V (PWR)	1	10

## CRITICAL DIMENSION INSPECTION INSTRUCTION TABLE

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

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