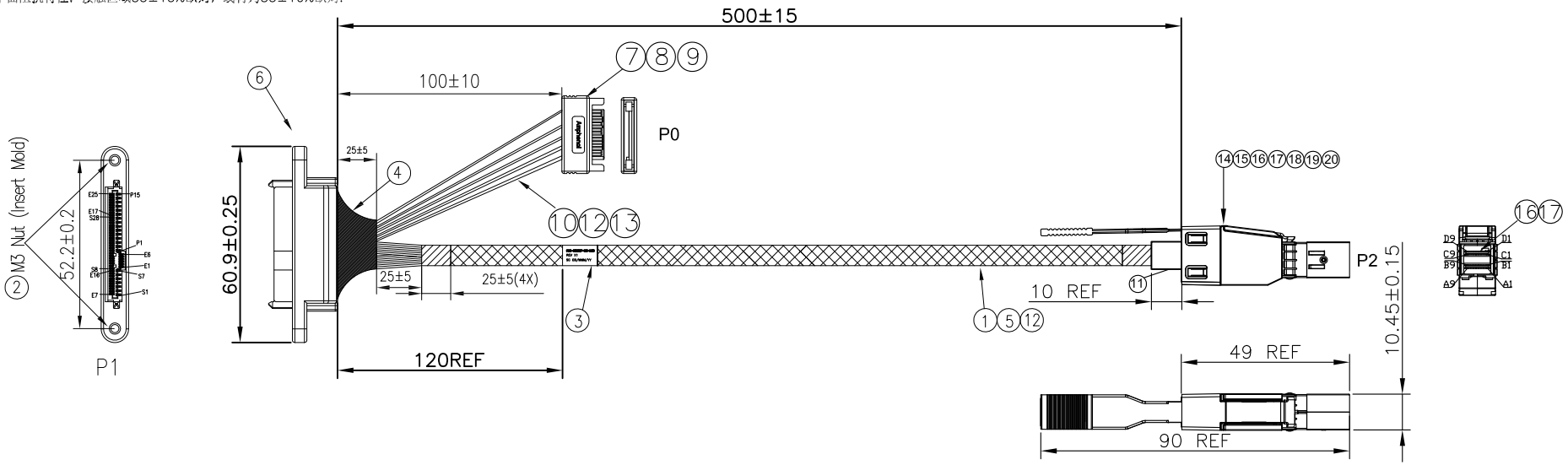
PROPRIETARY INFORMATION
COMPANY CONFIDENTIAL

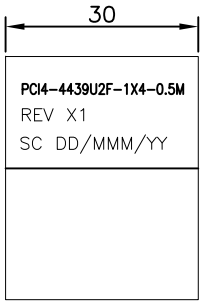
RoHS Compliant

REV.	ECN. NO.	DESCRIPTION	ENG	DATE
X1		FIRST INITIAL	Leon Sun	10/18/2019

NOTE:
1. THE CABLE ASSEMBLY SHOULD BE RoHS2.0 COMPLIANT.
   该产品通过RoHS2.0认证.
2. ELECTRICAL AND MECHANICAL PERFORMANCE SHOULD MEET THE PCIE GEN4.0 INDUSTRIAL STANDARD.
   电气特性遵循PCIE GEN4.0工业标准.
3. THE CABLE ASSEMBLY SHALL MEET BELOW IMPEDANCE REQUIREMENT:
   TERMINATION AREA: 85±15% OHMS, CABLE ABSOLUTE AREA: 85±10% OHMS.
   该产品满足下面阻抗特性：接触区域85±15%欧姆，线材为85±10%欧姆.



ITEM	VENDOR P/N	DESCRIPTION	QTY
20	**53-021-0006&7**	EXT.HD 4X LP EMI SPRING, SUS301	1
19	**51-021-0002**	EXT.HD 4X LP LATCH, SUS304	1
18	**44-022-0005**	EXT.HD 4X LP PULL TAB PA66 1300S GREEN	1
17	**20-021-0006**	EXT.HD 4X PCB C/D BOARD W/O IC, Au 30u"	1
16	**20-021-0005**	EXT.HD 4X PCB A/B BOARD, Au 30u"	1
15	**50-021-0010**	EXT.HD 4X LP TOP SHELL, ZINC ALLOY	1
14	**50-021-0009**	EXT.HD 4X LP BOT SHELL, ZINC ALLOY	1
13	H0330230CX	WIRE,30AWG,UL3302,1/0.254,OD0.55,FR-XLPE,VW-1,NO MARKING,HF	A/R
12	R100702401	WIRE,24AWG,UL1007,11/0.16,BLK,OD1.4,VW-1,AST logo,R2	A/R
11	**60-005-0001**	HOST SHRINK TUBING, ϕ9.5MM, EVA, BLACK	A/R
10	R10070180X	WIRE:18AWG,41C,UL1007	A/R
9	RMRPV45101	PVC,45P,V1,BLACK	A/R
8	10115M02	SATA CONN:15P,M,BRS,G/F,LCP,V0,BLK	2
7	HMRPE45NT1	PE:LOW DENSITY,CLEAR,HF	A/R
6	AST8639-001	8639 PCIE 68POS CONN,STR,BLACK,Au15u",HEPCBA0473	2
5	HMTBD07001	EXPANDO TUB:7.0MM,BLK,SINGLE(OD7~25MM),R2,HF	A/R
4	HMMTP00012	ACETATE TAPE:W=1INCH,HF	A/R
3	70-030-0001	LABEL 30*60MM	1
2	RMHNUT0032	NUT:STEEL 1215,Ni-plated,M3*0.5,HEX,L=2.3MM,R2	4
1	HWSS300133	SAS CBL:UL20744,30#2C+2D+A+HM,Silvered,85ohm,PP,BLU,VW-1,16G,HF	A/R



LABEL DETAIL

GENERAL TOLERANCE	ANGLE TOLERANCE
X.± 0.50	X°± 5.0°
.X± 0.20	.X°± 3.0°
.XX± 0.10	.XX°± 2.0°
.XXX± 0.05	.XXX°± 1.0°

MATL SEE BOM
FINISH SEE NOTES
SCALE N/A UNIT mm
SHEET 1 OF 2

DRAWN Leon DATE 10/18/2019
CHECKED Jordan DATE 11/15/2019
APPROVED DATE

TITLE: 4X HDMSAS TO SFF-8639 Connector
PART NUMBER: PCI4-4439U2F-1X4-0.5M
DRAWING NO. 10-3221110001-01
SIZE A4
REV. X1

PROPRIETARY INFORMATION
COMPANY CONFIDENTIAL

RoHS Compliant

REV.	ECN. NO.	DESCRIPTION	ENG	DATE
X1		FIRST INITIAL	Leon Sun	10/18/2019

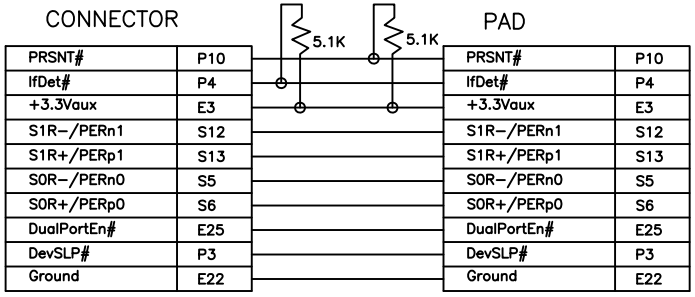
WIRING TABLE

P2		P1	
GND	D9	S19	GND
TX2-	D8	S18	TX2-
TX2+	D7	S17	TX2+
GND	D6	S25	GND
TX1-	D5	S24	TX1-
TX1+	D4	S23	TX1+
GND	D3		
PERST#_1	D2	E4	ePerst1#
PERST#_0	D1	E5	ePerst0#
ATLAS_SCL	C1	E23	SMClk
ATLSA_SDA	C2	E24	SMDat
GND	C3		
TX0+	C4	E17	TX0+
TX0-	C5	E18	TX0-
GND	C6	E19	GND
TX3+	C7	E10	TX3+
TX3-	C8	E11	TX3-
GND	C9	E12	GND
GND	B9	S19	GND
RX2-	B8	S20	RX2-
RX2+	B7	S21	RX2+
GND	B6	S25	GND
RX1-	B5	S26	RX1-
RX1+	B4	S27	RX1+
GND	B3	S7	GND
CLK_1_P	B2	E1	RefClk1+
CLK_1_N	B1	E2	RefClk1-
CLK_0_N	A1	E8	RefClk0-
CLK_0_P	A2	E7	RefClk0+
GND	A3	E9	GND
RX0+	A4	E21	RX0+
RX0-	A5	E20	RX0-
GND	A6	E22	GND
RX3+	A7	E14	RX3+
RX3-	A8	E13	RX3-
GND	A9	E15	GND
	SHELL	SHELL	

WHT 30AWG
GRN 30AWG
BLU 30AWG
YEL 30AWG

8639 U2 PCBA SCHEMATIC

(THE OTHERS IS PIN TO PIN)



P1

WHT / GRN		
	+3.3Vaux	E3
	ePerst1#	E4
	ePerst0#	E5
	Reserved	E6
	Wake#	P1
	Dev_Reset	P2
	DevSLP#	P3
	IfDet#	P4
	Ground	P5
	Ground	P6
	+5V Precharge	P7
	+5V	P8
	+5V	P9
	PRSNT#	P10
	Activity/Spinup	P11
	Ground	P12
	+12V Precharge	P13
	+12V	P14
	+12V	P15
	DualPortEN	E25

UL1007 24AWG BLK

UL1007 18AWG BLK

UL1007 24AWG BLK

UL1007 18AWG YEL

P0

4,5,6	GND
7,8,9	+5V
1,2,3	+3.3V
10,11,12	GND
13,14,15	+12V

NOTE:P1 GND GROUP:
E9,E12,E15,E19,E22,S1,S4,S7
S8,S11,S14,S16,S19,S22,S25,S28
OTHER:
E16,E25,P4,P10 IS OPEN

GENERAL TOLERANCE: X.± 0.50, .X± 0.20, .XX± 0.10, .XXX± 0.05	ANGLE TOLERANCE: X°± 5.0°, .X°± 3.0°, .XX°± 2.0°, .XXX°± 1.0°	DRAWN Leon	DATE 10/18/2019
		CHECKED Jordan	DATE 11/15/2019
MATL SEE BOM		APPROVED	DATE
FINISH SEE NOTES			
SCALE N/A	UNIT mm		
SHEET 2 OF 2			

TITLE: 4X HDMSAS TO SFF-8639 Connector
PART NUMBER: PCI4-4439U2F-1X4-0.5M
DRAWING NO. 10-3221110001-01
SIZE A4
REV. X1