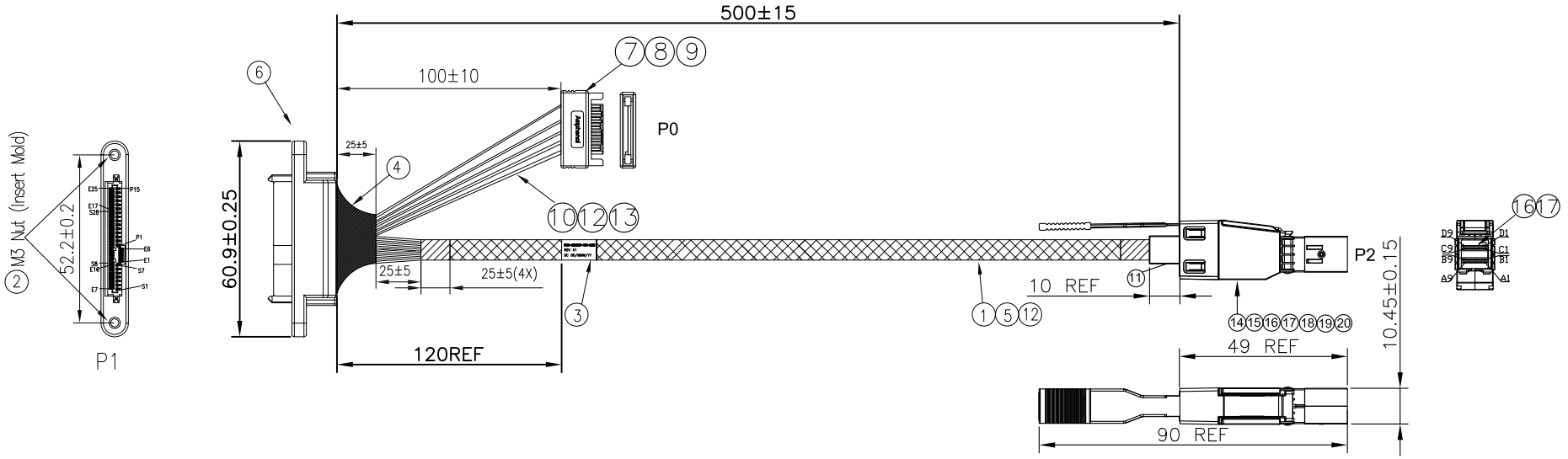
PROPRIETARY INFORMATION
COMPANY CONFIDENTIAL

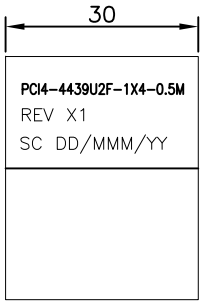
RoHS Compliant

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	**AST8639-00X**	8639 PCIE 68POS CONN,STR,BLACK,Au15u",HEPCBA0474	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: PCI4-4439U3F-1X4-0.5M
DRAWING NO. 10-3221110002-01
SIZE A4
REV. X1

PROPRIETARY INFORMATION
COMPANY CONFIDENTIAL

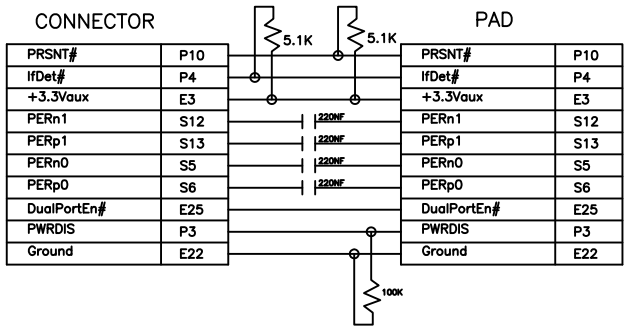
RoHS Compliant

WIRING TABLE

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

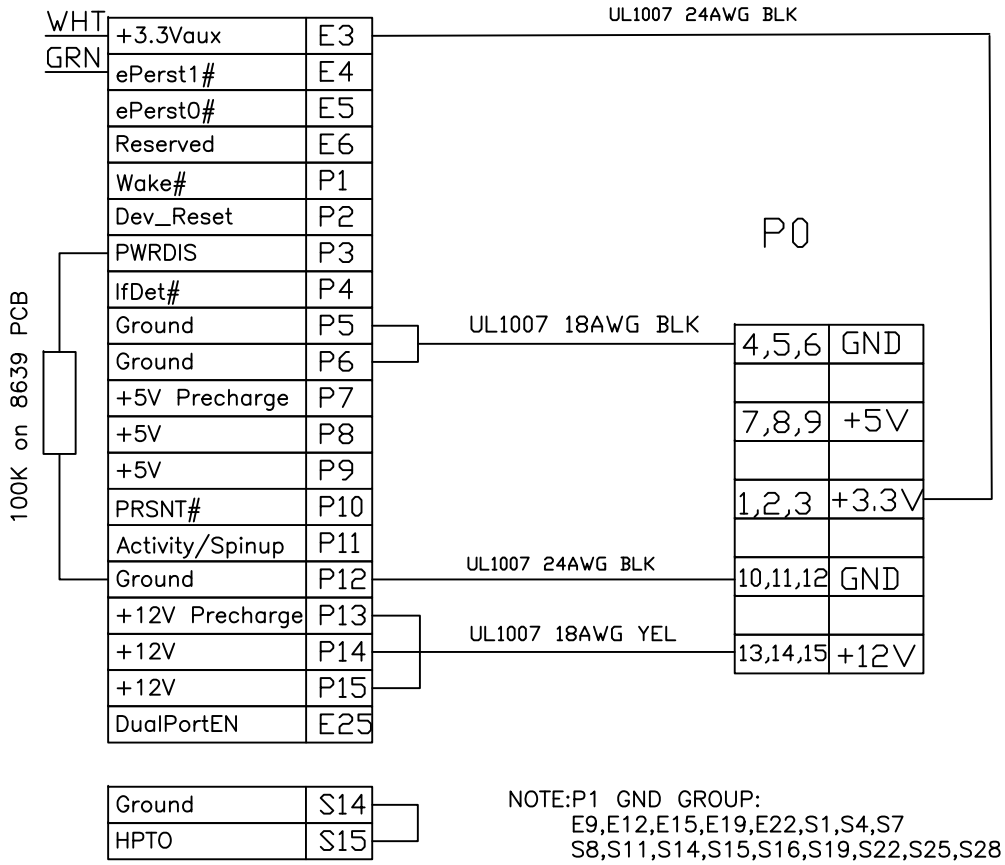
P2			P1	
GND	D9		S11	GND
TX2-	D8		S10	TX2-
TX2+	D7		S9	TX2+
GND	D6		S19	GND
TX1-	D5		S18	TX1-
TX1+	D4		S17	TX1+
GND	D3			
PERST#_1	D2	WHT 30AWG	E4	ePerst1#
PERST#_0	D1	GRN 30AWG	E5	ePerst0#
ATLAS_SCL	C1	BLU 30AWG	E23	SMClk
ATLSA_SDA	C2	YEL 30AWG	E24	SMDat
GND	C3			
TX0+	C4		S23	TX0+
TX0-	C5		S24	TX0-
GND	C6		S25	GND
TX3+	C7		S2	TX3+
TX3-	C8		S3	TX3-
GND	C9		S4	GND
GND	B9		S14	GND
RX2-	B8	220nF	S12	RX2-
RX2+	B7	220nF	S13	RX2+
GND	B6		S22	GND
RX1-	B5		S20	RX1-
RX1+	B4		S21	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		S27	RX0+
RX0-	A5		S26	RX0-
GND	A6		S28	GND
RX3+	A7	220nF	S6	RX3+
RX3-	A8	220nF	S5	RX3-
GND	A9		S7	GND
	SHELL		SHELL	

8639 U3 PCBA SCHEMATIC
(THE OTHERS IS PIN TO PIN)



CONNECTOR		PAD	
PRSNT#	P10	PRSNT#	P10
IfDet#	P4	IfDet#	P4
+3.3Vaux	E3	+3.3Vaux	E3
PERn1	S12	PERn1	S12
PERp1	S13	PERp1	S13
PERn0	S5	PERn0	S5
PERp0	S6	PERp0	S6
DualPortEn#	E25	DualPortEn#	E25
PWRDIS	P3	PWRDIS	P3
Ground	E22	Ground	E22

P1



+3.3Vaux	E3
ePerst1#	E4
ePerst0#	E5
Reserved	E6
Wake#	P1
Dev_Reset	P2
PWRDIS	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

Ground	S14
HPTO	S15

NOTE:P1 GND GROUP:
E9,E12,E15,E19,E22,S1,S4,S7
S8,S11,S14,S15,S16,S19,S22,S25,S28
OTHER:
E16,E25,P4,P10 IS OPEN

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°

DRAWN	Leon	DATE 10/18/2019
CHECKED	Jordan	DATE 11/15/2019
APPROVED		DATE
MATL	SEE BOM	
FINISH	SEE NOTES	
SCALE	N/A	UNIT mm
SHEET	2 OF 2	

TITLE: 4X HDMSAS TO SFF-8639 Connector
PART NUMBER: PCI4-4439U3F-1X4-0.5M
DRAWING NO. 10-3221110002-01
SIZE A4
REV. X1