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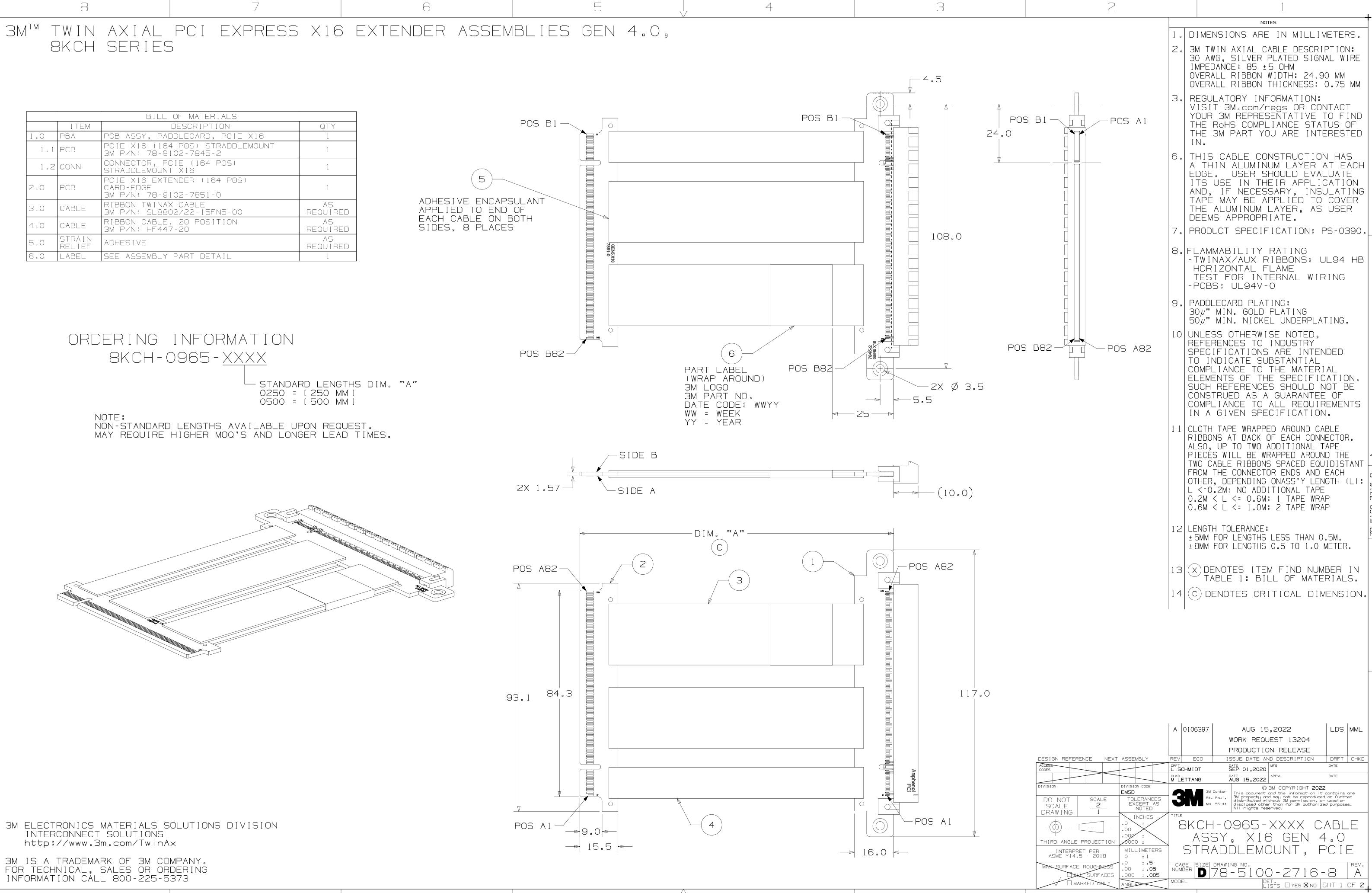
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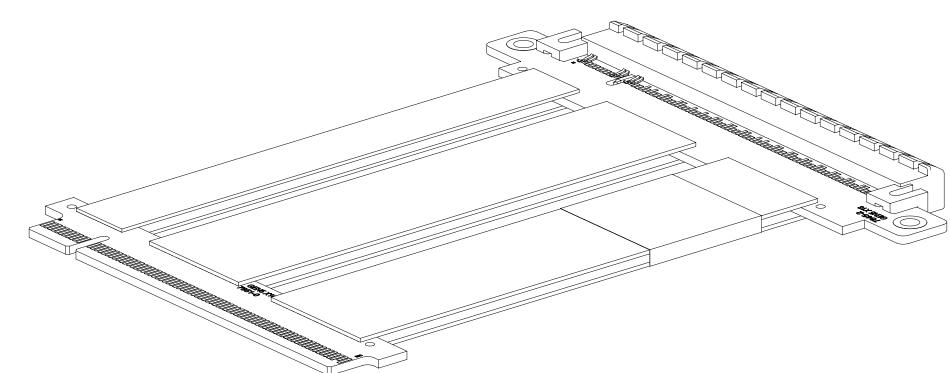
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BILL OF MATERIALS			
	ITEM	DESCRIPTION	QTY
1.0	PBA	PCB ASSY, PADDLECARD, PCIE X16	1
1.1	РСВ	PCIE X16 (164 POS) STRADDLEMOUNT 3M P/N: 78-9102-7845-2	1
1.2	CONN	CONNECTOR, PCIE (164 POS) Straddlemount X16	1
2.0	РСВ	PCIE X16 EXTENDER (164 POS) CARD-EDGE 3M P/N: 78-9102-7851-0	1
3.0	CABLE	RIBBON TWINAX CABLE 3M P/N: SL8802/22-15FN5-00	AS REQUIRED
4.0	CABLE	RIBBON CABLE, 20 POSITION 3M P/N: HF447-20	AS REQUIRED
5.0	STRAIN Relief	ADHESIVE	AS REQUIRED
6.0	LABEL	SEE ASSEMBLY PART DETAIL	1



ORDERING INFORMATION 8KCH-0965-XXXX - STANDARD LENGTHS DIM. "A" 0250 = [250 MM] 0500 = [500 MM]

NOTE : NON-STANDARD LENGTHS AVAILABLE UPON REQUEST. MAY REQUIRE HIGHER MOQ'S AND LONGER LEAD TIMES.



3M ELECTRONICS MATERIALS SOLUTIONS DIVISION INTERCONNECT SOLUTIONS http://www.3m.com/TwinAx

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1.	NOTES DIMENSIONS ARE IN MILLIMETERS.	_
2.	3M TWIN AXIAL CABLE DESCRIPTION: 30 AWG, SILVER PLATED SIGNAL WIRE	
	IMPEDANCE: 85 ±5 OHM OVERALL RIBBON WIDTH: 24.90 MM OVERALL RIBBON THICKNESS: 0.75 MM	
3.	REGULATORY INFORMATION: VISIT 3M.com/regs OR CONTACT YOUR 3M REPRESENTATIVE TO FIND THE ROHS COMPLIANCE STATUS OF THE 3M PART YOU ARE INTERESTED IN.	
6.	A THIN ALUMINUM LAYER AT EACH EDGE. USER SHOULD EVALUATE ITS USE IN THEIR APPLICATION AND, IF NECESSARY, INSULATING TAPE MAY BE APPLIED TO COVER THE ALUMINUM LAYER, AS USER DEEMS APPROPRIATE.	
/ _•	PRODUCT SPECIFICATION: PS-0390.	
8.	FLAMMABILITY RATING -TWINAX/AUX RIBBONS: UL94 HB HORIZONTAL FLAME TEST FOR INTERNAL WIRING -PCBS: UL94V-0	
9.	PADDLECARD PLATING: 30µ" MIN. GOLD PLATING 50µ" MIN. NICKEL UNDERPLATING.	
10	UNLESS OTHERWISE NOTED, REFERENCES TO INDUSTRY SPECIFICATIONS ARE INTENDED TO INDICATE SUBSTANTIAL COMPLIANCE TO THE MATERIAL ELEMENTS OF THE SPECIFICATION. SUCH REFERENCES SHOULD NOT BE CONSTRUED AS A GUARANTEE OF COMPLIANCE TO ALL REQUIREMENTS IN A GIVEN SPECIFICATION.	С
1 1	CLOTH TAPE WRAPPED AROUND CABLE RIBBONS AT BACK OF EACH CONNECTOR. ALSO, UP TO TWO ADDITIONAL TAPE PIECES WILL BE WRAPPED AROUND THE TWO CABLE RIBBONS SPACED EQUIDISTANT FROM THE CONNECTOR ENDS AND EACH OTHER, DEPENDING ONASS'Y LENGTH (L): L <=0.2M: NO ADDITIONAL TAPE 0.2M < L <= 0.6M: 1 TAPE WRAP 0.6M < L <= 1.0M: 2 TAPE WRAP	100-2716-8 ARVISION
12	LENGTH TOLERANCE: ± 5MM FOR LENGTHS LESS THAN 0.5M. ± 8MM FOR LENGTHS 0.5 TO 1.0 METER.	
13	X DENOTES ITEM FIND NUMBER IN TABLE 1: BILL OF MATERIALS.	В
14	© DENOTES CRITICAL DIMENSION.	
I		nrs) 6

8 6 3M™ TWIN AXIAL PCI EXPRESS X16 EXTENDER ASSEMBLIES GEN 4.0, 8KCH SERIES

Edgecard				Edgecard
pin #	Side B Description	Name	CEM pin #	pin #
B01	+12 volt power	+12v	B01	A01
B02	+12 volt power	+12v	B02	A02
B03	+12 volt power	+12v	B03	A03
B04	Ground	GND	B04	A04
B05	SMBus clock	SMCLK	B05	A05
B06	SMBus data	SMDAT	B06	A06
B07	Ground	GND	B07	A07
B07 B08	+3.3 volt power	+3.3v	B08	A07 A08
	+TRST#			
B09		JTAG1	B09	A09
B10	3.3v auxiliary power	3.3Vaux	B10	A10
B11	Link Reactivation	WAKE#	B11	A11
	Mechanical Key			
B12	Clock Request Signal	CLKREQ#	B12	A12
B13	Ground	GND	B13	A13
B14	Transmitter Lane 0, Differential	PETp(0)	B14	A14
B15	pair	PETn(0)	B15	A15
B16	Ground	GND	B16	A16
B17	Presence detect	PRSNT2#	B17	A17
B18	Ground	GND	B18	A18
B19	Transmitter Lane 1, Differential	PETp(1)	B19	A19
B20	pair	PETn(1)	B20	A20
B21	Ground	GND	B21	A21
B21 B22	Ground	GND	B21 B22	A22
B22 B23	Transmitter Lane 2, Differential	PETp(2)	B22 B23	A23
B23 B24	pair	PETP(2) PETn(2)	B23 B24	A23 A24
B24 B25	Ground	GND	B24 B25	A24 A25
B25 B26	Ground	GND	B25 B26	A25 A26
B27	Transmitter Lane 3, Differential	PETp(3)	B27	A27
B28	pair	PETn(3)	B28	A28
B29	Ground	GND	B29	A29
B30	Emergency Pwr Reduct	PWRBRK#	B30	A30
B31	Presence detect	PRSNT2#	B31	A31
B32	Ground	GND	B32	A32
B33	Transmitter Lane 4, Differential	PETp(4)	B33	A33
B34	pair	PETn(4)	B34	A34
B35	Ground	GND	B35	A35
B36	Ground	GND	B36	A36
B37	Transmitter Lane 5, Differential	PETp(5)	B37	A37
B38	pair	PETn(5)	B38	A38
B39	Ground	GND	B39	A39
B40	Ground	GND	B40	A40
B41	Transmitter Lane 6, Differential	PETp(6)	B41	A41
B42	pair	PETn(6)	B42	A42
B43	Ground	GND	B43	A43
B44	Ground	GND	B44	A44
B45	Transmitter Lane 7, Differential	PETp(7)	B45	A45
B46	pair	PETn(7)	B46	A46
B40 B47	Ground	GND	B40 B47	A40
B47 B48	Presence detect	PRSNT2#	B47 B48	A47 A48
B40 B49	Ground	GND	B40 B49	A40 A49
B50	Transmitter Lane 8, Differential	PETp(8)	B50	A50
B51	pair	PETn(8)	B51	A51
B52	Ground	GND	B52	A52
B53	Ground	GND	B53	A53
B54	Transmitter Lane 9, Differential	PETp(9)	B54	A54
B55	pair	PETn(9)	B55	A55
B56	Ground	GND	B56	A56
B57	Ground	GND	B57	A57
B58	Transmitter Lane 10, Differential		B58	A58
B59	pair	PETn(10)	B59	A59
B60	Ground	GND	B60	A60
B61	Ground	GND	B61	A61
B62	Transmitter Lane 11, Differential	PETp(11)	B62	A62
B63	pair	PETn(11)	B63	A63
B64	Ground	GND	B64	A64
B65	Ground	GND	B65	A65
B66	Transmitter Lane 12, Differential		B66	A66
B67	pair	PETn(12)	B67	A67
B68	Ground	GND	B68	A68
B69	Ground	GND	B69	A69
B03 B70	Transmitter Lane 13, Differential		B70	A03
B70 B71		PETp(13)	B70 B71	A70
B71 B72	pair Ground	GND	B71 B72	A71 A72
B73	Ground	GND	B73	A73
B74	Transmitter Lane 14, Differential		B74	A74
B75	pair	PETn(14)	B75	A75
B76	Ground	GND	B76	A76
B77	Ground	GND	B77	A77
B78	Transmitter Lane 15, Differential		B78	A78
B79	pair	PETn(15)	B79	A79
B80	Ground	GND	B80	A80
B81	Hot plug present detect	PRSNT2#	B81	A81
B82	Presence detect	RSVD#2	B82	A82

ALL GROUNDS ARE TIED TOGETHER IN PCBS

B82

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RSVD#2

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В

А

B82 Presence detect

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Edgecard	Side A Description	Name	CEM pin #
<u>pin #</u> A01	Presence detect	PRSNT#1	A01
A01 A02	+12 volt power	+12v	A01 A02
A03	+12 volt power	+12v	A03
A04	Ground	GND	A04
A05	ТСК	JTAG2	A05
A06	TDI	JTAG3	A06
A07	TDO	JTAG4	A07
A08	TMS	JTAG5	A08
A09 A10	+3.3 volt power	+3.3v +3.3v	A09 A10
A10 A11	+3.3 volt power Fundamental reset	PERST#	A10 A11
	Mechanical Key		
A12	Ground	GND	A12
A13	Reference Clock, Differential	REFCLK+	A13
A14	pair	REFCLK-	A14
A15	Ground	GND	A15
A16 A17	Receiver Lane 0, Differential	PERp(0) PERn(0)	A16 A17
A17 A18	pair Ground	GND	A17 A18
A19	Manufacturer Test Mode	MFG	A19
A20	Ground	GND	A20
A21	Receiver Lane 1, Differential	PERp(1)	A21
A22	pair	PERn(1)	A22
A23	Ground	GND	A23
A24 A25	Ground	GND PERp(2)	A24 A25
A25 A26	Receiver Lane 2, Differential pair	PERp(2) PERn(2)	A25 A26
A20 A27	Ground	GND	A20 A27
A28	Ground	GND	A28
A29	Receiver Lane 3, Differential	PERp(3)	A29
A30	pair	PERn(3)	A30
A31	Ground	GND	A31
A32 A33	Reserved	RSVD RSVD	A32 A33
A33 A34	Reserved Ground	GND	A33 A34
A34 A35	Receiver Lane 4, Differential	PERp(4)	A34 A35
A36	pair	PERn(4)	A36
A37	Ground	GND	A37
A38	Ground	GND	A38
A39	Receiver Lane 5, Differential	PERp(5)	A39
A40 A41	pair Ground	PERn(5) GND	A40 A41
A41 A42	Ground	GND	A41 A42
A42	Receiver Lane 6, Differential	PERp(6)	A43
A44	pair	PERn(6)	A44
A45	Ground	GND	A45
A46	Ground	GND	A46
A47	Receiver Lane 7, Differential	PERp(7)	A47
A48 A49	pair Ground	PERn(7) GND	A48 A49
A50	Reserved	RSVD	A50
A51	Ground	GND	A51
A52	Receiver Lane 8, Differential	PERp(8)	A52
A53	pair	PERn(8)	A53
A54	Ground	GND	A54
A55 A56	Ground	GND BERn(9)	A55 A56
A56 A57	Receiver Lane 9, Differential pair	PERp(9) PERn(9)	A56 A57
A57 A58	Ground	GND	A57 A58
A59	Ground	GND	A59
A60	Receiver Lane 10, Differential	PERp(10)	A60
A61	pair	PERn(10)	A61
A62	Ground	GND	A62
A63 A64	Ground	GND PERp(11)	A63 A64
A64 A65	Receiver Lane 11, Differential pair	PERp(11) PERn(11)	A64 A65
A66	Ground	GND	A65
A67	Ground	GND	A67
A68	Receiver Lane 12, Differential	PERp(12)	A68
A69	pair	PERn(12)	A69
A70	Ground		A70
A71 A72	Ground Receiver Lane 13, Differential	GND PERp(13)	A71 A72
A72 A73	pair	PERp(13) PERn(13)	A72 A73
A73 A74	Ground	GND	A73 A74
A75	Ground	GND	A75
A76	Receiver Lane 14, Differential	PERp(14)	A76
A77	pair	PERn(14)	A77
A78	Ground		A78
A79 A80	Ground Receiver Lane 15, Differential	GND PERp(15)	A79 A80
A80 A81	pair	PERp(15) PERn(15)	A80 A81
A81 A82	Ground	GND	A81 A82
		1	

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