

8 7	6	5		7		3	2	1	
3M™ PCIe GEN 4 X16 EXTENDER TWIN	LAXIAL CABLE ASSEMBLY								
		PCIe X16 Extender/Jumper Assembly Pin-Out Side-B		PCIe X16 Extender/Jumper Assembly Pin-Out Side-A					
		Pin # Side B Description B01 +12 volt power	Name Pin #	Pin # Side A Description A01 Hot plug presence detect	Name Pin#				
	3M 3749-20 Cable Wire # Pin Attachment #	B02 +12 volt power B03 Reserved	+12v B02 RSVD B03	A02 +12 volt power A03 +12 volt power	+12v A02 +12v A03	3M 3749-20 Cable Pin Attachment # Wire #			
	01 Ground Layer 02 B01 - B03 03 B01 - B03	B04 Ground B05 SMBus clock B06 SMBus data	GND B04 SMCLK B05 SMDAT B06	A04 Ground A05 TCK A06 TDI A07 TDO	GND A04 JTAG2 A05 JTAG3 A06	Ground Layer 01 A01 Single Ended 02 Ground Layer 03			
	04 B01 - B03 05 B01 - B03 06 B01 - B03	B07 Ground B08 +3.3 volt power B09 +TRST#	GND B07 +3.3v B08 JTAG1 B09	A07 TDO A08 TMS A09 +3.3 volt power	JTAG4 A07 JTAG5 A08 +3.3v A09	A02 - A03 04 A02 - A03 05 A02 - A03 06			
	07 B01 - B03 08 Ground Layer 09 B05 Single Ended	B10 3.3v volt power B11 Link Reactivation Mechanical K	3.3Vaux B10 WAKE# B11	A10 +3.3 volt power A11 Power Good Mechanical K	+3.3v A09 +3.3v A10 PWRGD A11	A02 - A03 07 Ground Layer 08 A05 Single Ended 09			
	10 B06 Single Ended 11 Ground Layer 12 B08	B12 Clock Request Signal B13 Ground B14 Transmitter Lane 0,	CLKREQ# B12 GND B13	A12 Ground A13 Reference Clock A14 Differential pair	GND A12 REFCLK+ A13 REFCLK- A14	A06 Single Ended 10 A07 Single Ended 11 A08 Single Ended 12			
	13 B08 14 B09 Single Ended	B15 Differential pair B16 Ground	GND B16	A15 Ground A16 Receiver Lane 0,	GND A15	Ground Layer 13 A09 - A10 14			
	15 B10 16 B10 17 Ground Layer	B17 Hotplug detect B18 Ground B19 Transmitter Lane 1,	PRSNT#2 B17 GND B18 HSOp(1) B19	A18 Ground A19 Reserved	HSIp(0) A16 HSIn(0) A17 GND A18 RSVD A19	A09 - A10 15 A09 - A10 16 A09 - A10 17			
	18 B11 Single Ended 19 Ground Layer 20 B12 Single Ended	B20 Differential pair B21 Ground B22 Ground	HSOn(1) B20 GND B21 GND B22	A20 Ground A21 Receiver Lane 1, A22 Differential pair	GND A20 HSlp(1) A21 HSln(1) A22	Ground Layer 18 Ground Layer 19 A11 Single Ended 20			
	3M SL8802 Cable	B23 Transmitter Lane 2, B24 Differential pair B25 Ground	HSOp(2) B23 HSOn(2) B24 GND B25	A23 Ground A24 Ground A25 Receiver Lane 2,	GND A23 GND A24	3M SL8802 Cable			
	Wire # Pin Attachment drain Ground Layer pr_01 B14 Differential Pr	B26 Ground B27 Transmitter Lane 3,	GND B26 HSOp(3) B27	A26 Differential pair A27 Ground	HSIn(2) A26 GND A27	Pin Attachment # Wire # Ground Layer drain A13 Single Ended pr_01			
	pr_01 B15 Differential Pr pr_02 B17 Single Ended pr_02 Ground Layer	B28 Differential pair B29 Ground B30 Emergency Pwr Reduct	HSOn(3) B28 GND B29 PWRBRK# B30	A28 Ground A29 Receiver Lane 3, A30 Differential pair	GND A28 HSIp(3) A29 HSIn(3) A30 GND A31	A14 Single Ended pr_01 A16 Differential Pr pr_02 A17 Differential Pr pr_02			
	pr_03 B19 Differential Pr pr_03 B20 Differential Pr pr_04 B23 Differential Pr	B31 Hot plug detect B32 Ground B33 Transmitter Lane 4,	PRSNT#2 B31 GND B32 HSOp(4) B33	A31 Ground A32 Reserved A33 Reserved	GND A31 RSVD A32 RSVD A33	Ground Layer pr_03 A19 Single Ended pr_03 A21 Differential Pr pr_04			
	pr_04 B24 Differential Pr drain Ground Layer pr_05 B27 Differential Pr	B34 Differential pair B35 Ground B36 Ground	HSOn(4) B34 GND B35 GND B36	A34 Ground A35 Receiver Lane 4, A36 Differential pair	GND A34 HSlp(4) A35 HSln(4) A36	A22 Differential Pr pr_04 Ground Layer drain A25 Differential Pr pr_05			
	pr_05 B28 Differential Pr pr_06 B30 Single Ended	B37 Transmitter Lane 5, B38 Differential pair	HSOp(5) B37 HSOn(5) B38 GND B39	A37 Ground A38 Ground	GND A37 GND A38	A26 Differential Pr pr_05 A29 Differential Pr pr_06			NOIS
	pr_06 B31 Single Ended pr_07 B33 Differential Pr pr_07 B34 Differential Pr	B39 Ground B40 Ground B41 Transmitter Lane 6,	GND B40 HSOp(6) B41	A39 Receiver Lane 5, A40 Differential pair A41 Ground	HSIn(5) A40 GND A41	A30 Differential Pr pr_06 A32 Single Ended pr_07 A33 Single Ended pr_07			B BEV15
	drain Ground Layer pr_08 B37 Differential Pr pr_08 B38 Differential Pr	B42 Differential pair B43 Ground B44 Ground	HSOn(6) B42 GND B43 GND B44	A42 Ground A43 Receiver Lane 6, A44 Differential pair	GND A42 HSIp(6) A43 HSIn(6) A44	Ground Layer drain A35 Differential Pr pr_08 A36 Differential Pr pr_08			2721-
	pr_09 B41 Differential Pr pr_09 B42 Differential Pr pr_10 B45 Differential Pr	B45 Transmitter Lane 7, B46 Differential pair B47 Ground	HSOp(7) B45 HSOn(7) B46 GND B47		GND A45 GND A46 HSlp(7) A47	A39 Differential Pr pr_09 A40 Differential Pr pr_09 A43 Differential Pr pr_10			O 1 OO -
	pr_10 B46 Differential Pr pr_11 B48 Single Ended pr_11 Ground Layer	B48 Hot plug detect B49 Ground B50 Transmitter Lane 8,	PRSNT#2 B48 GND B49 HSOp(8) B50		HSIn(7) A48 GND A49 RSVD A50	A44 Differential Pr pr_10 A47 Differential Pr pr_11 A48 Differential Pr pr_11			78- 0RAWIT
B	drain Ground Layer 3M SL8802 Cable	B51 Differential pair B52 Ground B53 Ground	HSOn(8) B51 GND B52	A51 Ground A52 Receiver Lane 8, A53 Differential pair	GND A51 HSlp(8) A52	Ground Layer drain 3M SL8802 Cable			E
	Wire # Pin Attachment # drain Ground Layer	B54 Transmitter Lane 9, B55 Differential pair	HSOp(9) B54 HSOn(9) B55	A54 Ground A55 Ground	HSIn(8) A53 GND A54 GND A55	Pin Attachment # Wire # Ground Layer drain			
	pr_01 B50 Differential Pr pr_01 B51 Differential Pr pr_02 Ground Layer	B56 Ground B57 Ground B58 Transmitter Lane 10,	GND B56 GND B57 HSOp(10) B58	A56 Receiver Lane 9, A57 Differential pair A58 Ground	HSIp(9) A56 HSIn(9) A57 GND A58	A33 Single Ended pr_01 Ground Layer pr_01 A52 Differential Pr pr_02			
	pr_02 Ground Layer pr_03 B54 Differential Pr pr_03 B55 Differential Pr	B59 Differential pair B60 Ground B61 Ground	HSOn(10) B59 GND B60 GND B61	A59 Ground A60 Receiver Lane 10, A61 Differential pair	GND A59 HSlp(10) A60 HSln(10) A61	A53 Differential Pr pr_02 Ground Layer pr_03 Ground Layer pr_03			
	pr_04 B58 Differential Pr pr_04 B59 Differential Pr drain Ground Layer	B62 Transmitter Lane 11, B63 Differential pair B64 Ground	HSOp(11) B62 HSOn(11) B63 GND B64	A62 Ground A63 Ground A64 Receiver Lane 11,	GND A62 GND A63 HSlp(11) A64	A56 Differential Pr pr_04 A57 Differential Pr pr_04 Ground Layer drain			
	pr_05 B62 Differential Pr pr_05 B63 Differential Pr	B65 Ground B66 Transmitter Lane 12,	GND B65 HSOp(12) B66	A65 Differential pair A66 Ground	HSIn(11) A65 GND A66	A60 Differential Pr pr_05 A61 Differential Pr pr_05			
	pr_06 B66 Differential Pr pr_06 B67 Differential Pr pr_07 B70 Differential Pr	B67 Differential pair B68 Ground B69 Ground	HSOn(12) B67 GND B68 GND B69	A67 Ground A68 Receiver Lane 12, A69 Differential pair A70 Ground	HSIp(12) A68 HSIn(12) A69	A64 Differential Pr pr_06 A65 Differential Pr pr_06 A68 Differential Pr pr_07	в о1	02671 FEB 14,2022 LC	.DS MML
	pr_07 B71 Differential Pr drain Ground Layer pr_08 B74 Differential Pr	B70 Transmitter Lane 13, B71 Differential pair B72 Ground	HSOp(13) B70 HSOn(13) B71 GND B72	A70 Ground A71 Ground A72 Receiver Lane 13,	GND A70 GND A71 HSlp(13) A72	A69 Differential Pr pr_07 Ground Layer drain A72 Differential Pr pr_08		ITEM 1.2 REMOVED P/Ns	DS MML
	pr_08 B75 Differential Pr pr_09 Ground Layer pr_09 Ground Layer	B73 Ground B74 Transmitter Lane 14, B75 Differential pair	GND B73 HSOp(14) B74	A73 Differential pair A74 Ground	HSIn(13) A73 GND A74 GND A75	A73 Differential Pr pr_08 A76 Differential Pr pr_09 A77 Differential Pr pr_09	DECION DEFENSE NEXT 1885 18	WORK REQUEST 13075 INITIAL RELEASE	DET OUTS
A	pr_10 B78 Differential Pr pr_10 B79 Differential Pr pr_11 B81 Single Ended	B76 Ground B77 Ground B78 Transmitter Lane 15,	GND B76 GND B77 HSOp(15) B78	A77 Differential pair	HSIp(14) A76 HSIn(14) A77 GND A78	Ground Layer pr_10 Ground Layer pr_10 A80 Differential Pr pr_11	DESIGN REFERENCE NEXT ASSEMBLY ACCESS CODES DRFT L SCHM CHKD M LETT	DATE APPLII DATE	ΓE
	pr_11 B82 Single Ended drain Ground Layer	B79 Differential pair B80 Ground	HSOn(15) B79 GND B80	A79 Ground A80 Receiver Lane 15, A81 Differential pair	GND A79	A81 Differential Pr pr_11 Ground Layer drain	DO NOT SCALE TOLERANCES EXCEPT AS	© ON CODYDICHT 3033	ains are further d or imposes.
3M ELECTRONICS MATERIALS SOLUTIONS DIVISION		B81 Hot plug present detect B82 Hot Plug Detect	RSVD#2 B82	A82 Ground	HSIp(15) A80 HSIn(15) A81 GND A82		DRAWING I INCHES TITLE	CE-0953-XXXX, CAI	BLE
INTERCONNECT SOLUTIONS http://www.3m.com/TwinAx		THIS IS A FEED THROUGH ASS THE PIN ASSIGNMENTS REMA		TH ENDS			THIRD ANGLE PROJECTION 0000 ± INTERPRET PER MILLIMETERS	ASSY, PCIE X16 B PCIE X16 EXTENDE	JY
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8	6	5		4		3	ANGLES ±1 • MODEL	DET. LISTS TYES NO SHT	2 OF 3

