

3M™ TWIN AXIAL PCI EXPRESS X16 EXTENDER ASSEMBLIES GEN 4.0, 8KCH SERIES CEM pin # Side A Description Name pin# A01 Presence detect PRSNT#1 A01 A02 A02 +12 volt power +12v A03 A03 +12 volt power +12v GND A04 Ground A04 A05 TCK JTAG2 A05 A06 TDI JTAG3 A06 A07 TDO JTAG4 A07 A08 TMS JTAG5 A08 A09 +3.3 volt power +3.3v A09 A10 +3.3 volt power +3.3v A10 PERST# A11 Fundamental reset A11 Mechanical Key A12 Ground A12 A13 Reference Clock, Differential REFCLK+ A13

REFCLK-

PERp(0)

PERn(0)

GND

GND

MFG

GND

GND

PERp(1)

PERn(1)

PERp(2)

PERn(2)

PERp(3)

PERn(3)

GND

RSVD

RSVD

GND

PERp(4)

PERn(4) GND

PERp(5)

PERn(5)

PERp(6)

PERn(6)

PERp(7)

PERn(7)

PERp(8)

PERn(8)

PERp(9)

PERn(9)

PERp(10)

PERn(10)

PERp(11)

PERn(11)

PERp(12)

PERn(12)

PERp(13)

PERn(13)

PERp(14)

PERn(14)

PERp(15)

PERn(15)

GND

GND

GND

GND

GND

GND

RSVD

GND

GND

A14

A15

A16

A17

A18

A19

A20

A21

A22

A23

A24

A25

A26

A27 A28

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A73

A74

A75

A76

A77

A78

A79

A80

A81

A82

A14 pair

A17 pair

A22 pair

A26 pair

A30 pair

A36 pair

A37 Ground

A41 Ground

A42 Ground

A45 Ground

A49 Ground

A53 pair

A57 pair

A61 pair A62 Ground

A58 Ground

A66 Ground

A70 Ground

A71 Ground

A74 Ground

A75 Ground

A78 Ground

A79 Ground

A82 Ground

pair

A73 pair

A77 pair

A54 Ground

A31 Ground

A27 Ground

A24

A25

A28

A29

A32

A33

A35

A39

A40

A44

A46

A48

A50

A55

A60

A63

A65

A69

A76

A81

A34

A23 Ground

A15 Ground

A18 Ground

A16 Receiver Lane 0, Differential

A19 Manufacturer Test Mode

A21 Receiver Lane 1, Differential

Receiver Lane 2, Differential

Receiver Lane 3, Differential

Receiver Lane 4, Differential

Receiver Lane 5. Differential

Receiver Lane 6, Differential

Receiver Lane 7, Differential

Receiver Lane 9, Differential

Receiver Lane 10, Differential

Receiver Lane 11, Differential

Receiver Lane 12, Differential

Receiver Lane 14, Differential

Receiver Lane 15, Differential

A72 Receiver Lane 13, Differential

Ground

Ground

Ground

Reserved

Reserved

Ground

Ground

pair

pair

Ground

Reserved

A52 Receiver Lane 8, Differential

Ground

Ground

Ground

Ground

Ground

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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	I		
Edgecard	Side B Description	Name	CEM pin #
pin # B01	+12 volt power	+12v	B01
B02	+12 volt power	+12v	B02
B03	+12 volt power	+12v	B03
B04	Ground	GND	B04
B05	SMBus clock	SMCLK	B05
B06	SMBus data	SMDAT	B06
B07	Ground	GND	B07
B08	+3.3 volt power	+3.3v	B08
B09	+TRST#	JTAG1	B09
B10	3.3v auxiliary power	3.3Vaux	B10
B11	Link Reactivation	WAKE#	B11
B12	Mechanical Key	CLKREQ#	B12
B12	Clock Request Signal Ground	GND	B12
B13	Transmitter Lane 0, Differential	PETp(0)	B13
B15	pair	PETn(0)	B15
B16	Ground	GND	B16
B17	Presence detect	PRSNT2#	B17
B18	Ground	GND	B18
B19	Transmitter Lane 1, Differential	PETp(1)	B19
B20	pair	PETn(1)	B20
B21	Ground	GND	B21
B22	Ground	GND	B22
B23	Transmitter Lane 2, Differential	PETp(2)	B23
B24	pair	PETn(2)	B24
B25	Ground	GND	B25
B26 B27	Ground	GND	B26
B27	Transmitter Lane 3, Differential	PETp(3) PETn(3)	B27 B28
B28	pair Ground	GND	B28 B29
B30	Emergency Pwr Reduct	PWRBRK#	B30
B31	Presence detect	PRSNT2#	B31
B32	Ground	GND	B32
B33	Transmitter Lane 4, Differential	PETp(4)	B33
B34	pair	PETn(4)	B34
B35	Ground	GND	B35
B36	Ground	GND	B36
B37	Transmitter Lane 5, Differential	PETp(5)	B37
B38	pair	PETn(5)	B38
B39	Ground	GND	B39
B40 B41	Ground	GND PETp(6)	B40 B41
B42	Transmitter Lane 6, Differential pair	PETn(6)	B41
B43	Ground	GND	B43
B44	Ground	GND	B44
B45	Transmitter Lane 7, Differential	PETp(7)	B45
B46	pair	PETn(7)	B46
B47	Ground	GND	B47
B48	Presence detect	PRSNT2#	B48
B49	Ground	GND	B49
B50	Transmitter Lane 8, Differential	PETp(8)	B50
B51	pair	PETn(8)	B51
B52 B53	Ground Ground	GND GND	B52 B53
B54	Transmitter Lane 9, Differential	PETp(9)	B54
B55	pair	PETn(9)	B55
B56	Ground	GND	B56
B57	Ground	GND	B57
B58	Transmitter Lane 10, Differential		B58
B59	pair	PETn(10)	B59
B60	Ground	GND	B60
B61	Ground	GND	B61
B62 B63	Transmitter Lane 11, Differential	PETp(11) PETn(11)	B62 B63
B63 B64	pair Ground	GND	B63 B64
B65	Ground	GND	B65
B66	Transmitter Lane 12, Differential		B66
B67	pair	PETn(12)	B67
B68	Ground	GND ` ´	B68
B69	Ground	GND	B69
B70	Transmitter Lane 13, Differential		B70
B71	pair	PETn(13)	B71
B72	Ground	GND	B72
B73	Ground	GND	B73
B74 B75	Transmitter Lane 14, Differential		B74 B75
B75	pair Ground	PETn(14) GND	B75 B76
B77	Ground	GND	B77
B78	Transmitter Lane 15, Differential		B78
B79	pair	PETn(15)	B79
B80	Ground	GND	B80
B81	Hot plug present detect	PRSNT2#	B81
B82	Presence detect	RSVD#2	B82

PRODUCTION RELEASE ISSUE DATE AND DESCRIPTION DESIGN REFERENCE NEXT ASSEMBLY SEP 01,2020 MFG SCHMIDT AUG 15,2022 APPVL M LETTANG DIVISION CODE © 3M COPYRIGHT **2022** EMSD This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved. TOLERAN EXCEPT NOTED SCALE DRAWING INCHES 8KCH-0965-XXXX CABLE ASSY, X16 GEN 4.0 HIRD ANGLE PROJECTION STRADDLEMOUNT, PCIE INTERPRET PER ASME Y14.5 - 2018 MILLIMETERS .00 ± .05

A 0106397

ALL GROUNDS ARE TIED TOGETHER IN PCBS

8 6

CAGE NUMBER D 78-5100-2716-8 A LISTS I YES X NO SHT 2 OF 2

AUG 15,2022

WORK REQUEST 13204

SURFACES

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