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3M TM	AXIAL SERIES	EXPRESS	X16	EXTENDER	ASSEMBLIES	GEN	4.0,

dgecard pin #	Side B Description	Name	CEM 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
	Mechanical Key		
B12	Clock Request Signal	CLKREQ#	B12
B13	Ground	GND	B13
B14	Transmitter Lane 0, Differential	PETp(0)	B14
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		PETn(1)	B19 B20
B21	pair Ground	GND	B20 B21
B21 B22	Ground	GND	B21 B22
B22 B23			B22 B23
	Transmitter Lane 2, Differential	PETp(2)	
B24	pair	PETn(2)	B24
B25	Ground	GND	B25
B26	Ground	GND	B26
B27	Transmitter Lane 3, Differential	PETp(3)	B27
B28	pair	PETn(3)	B28
B29	Ground	GND	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	Ground	GND	B40
B41	Transmitter Lane 6, Differential	PETp(6)	B41
B42	pair	PETn(6)	B42
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	Ground	GND	B52
B53	Ground	GND	B53
B54	Transmitter Lane 9, Differential	PETp(9)	B54
B55	pair	PETP(9)	B55
B56	Ground	GND	B56
B57	Ground	GND	B57
B58	Transmitter Lane 10, Differential	PETp(10)	B58
B59	-	PETP(10)	B59
B60	pair Ground	GND	B60
B61	Ground	GND	B61
B62			B61 B62
B62 B63	Transmitter Lane 11, Differential	PETP(11) PETn(11)	B62 B63
B63 B64	pair Ground	GND	B63 B64
B65	Ground	GND	B64 B65
B65 B66			B65 B66
	Transmitter Lane 12, Differential		
B67	pair	PETn(12) GND	B67 B68
B68	Ground		
B69	Ground	GND	B69
B70	Transmitter Lane 13, Differential		B70
B71	pair	PETn(13)	B71
B72	Ground	GND	B72
B73	Ground	GND	B73
B74	Transmitter Lane 14, Differential	PETp(14)	B74
B75	pair	PETn(14)	B75
B76	Ground	GND	B76
B77	Ground	GND	B77
B78	Transmitter Lane 15, Differential	PETp(15)	B78
	pair	PETn(15)	B79
B79	Paii		
B79 B80	Ground	GND	B80
		GND PRSNT2#	B80 B81

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

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A 0106397

ALL GROUNDS ARE TIED TOGETHER IN PCBS

A82 Ground

8 7 6

5

GND

A82

4

3

2

D 78-5100-2715-0 A

| DET. | LISTS □ YES ■ NO | SHT 2 OF 2 |

AUG 15,2022 WORK REQUEST 13204 LDS MML