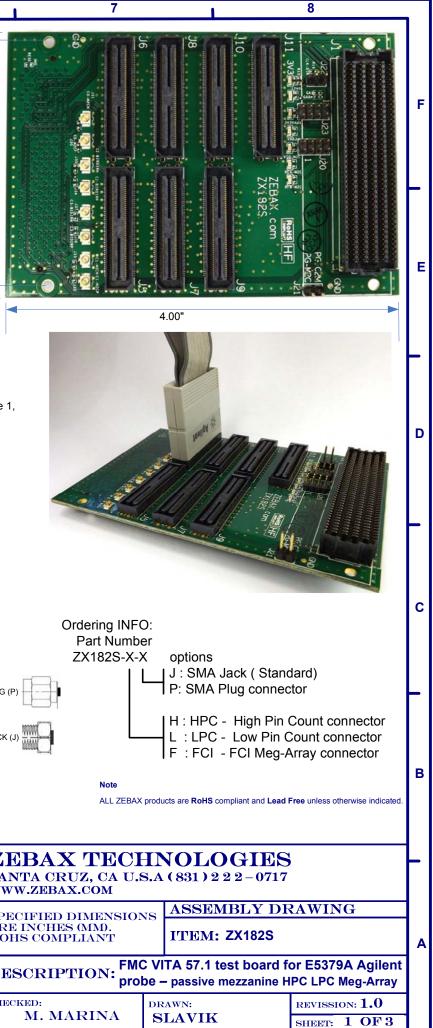
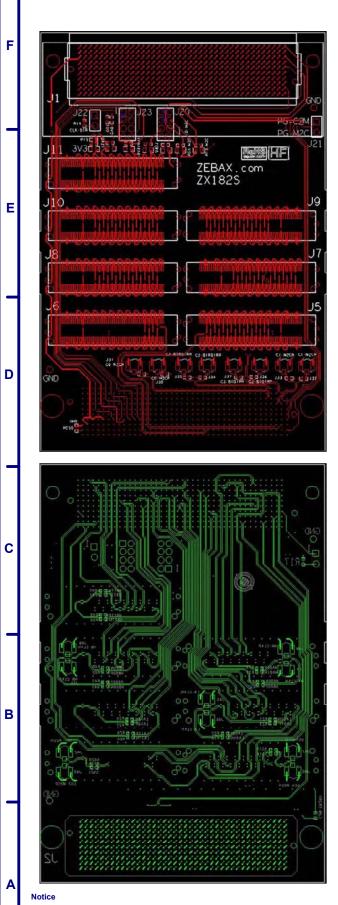
	1		2		1	3	1	4	1	5	1		6	
	Product Name			•	ent Samtec   5379A E5385		be E5379A test	board - brea	kout adapter	<sup>-</sup> – passive Fl	PGA Mezzan	ine Card		
F	Product Desc	ription: FPGA Mezzanine card , FMC , passive breakout adapter, meeting VITA 57.1 standard bus interfacing with Agilent Samtec differential / single ended probes Includes 10 rows x 40 pins, totaling 400 pins High Pin Count, HPC, ( 200 pins for LPC – Low Pin Count ), FCI Meg-Array, housing both CC ( Carrier Card - Host ) and MC ( Mezzanine Card ) connectors.									ZX182S Block diag	gram, See Page 2	2.717"	
		ZX182	2S is offered in I	HPC, LPC and	d FCI Meg-Array	/ con	nector configuratio	on, see ordering i	nformation	ZX182S,Pa adapter – tes	ssive FMC VITAL 5	7.1 breakout	2.48	
		- All s	ignals are acce	ssible via desi	gnated probe's		d or differential p ector, IPEX, Head	-	-			SEAM ( CC-xx	κx )	
E	<ul> <li>All Clocks are accessible via IPEX-37 connectors</li> <li>JTAG signals accessible via 2x4 pin header</li> <li>All Power Supply signals accessible via 2x4 pin headers with on-board LEDs indicators.</li> <li>Improved signal integrity and crosstalk with 12 layers PCB with each layers guarded by GROUND plane.</li> <li>Designed for 50Ω single ended and 100Ω differential trace impedance exceeding VITA 57.1 standard.</li> <li>DC to 10GHz bandwidth applications</li> </ul>								MC: Mezzani SEAF: SEAR SEAM: SEAF	Card typically located ine Card, typically loc RAY Female conne RRAY Plug ( Male) o	ecated on Mezzanin ector connector	<b>V</b>	••••	
		GND t	est point for ea	sy access as v	well as applying	exte	rnal ground refere	nce			nnector, headers, IF Package includes		ts	
	Application:		1 daughter card 1 to host, modul	- ·	-	Kilinx	development Virte	ex 6 Virtex 7 inter	face testing	Part number ZX182S-X-X ZX00SMA-IP	Quantity D 1 Fl EX37-X 4 S		le assembly , No	te 1,
D	Access:	2x4 pin head	der, SMD 0402	Package foot	tprint as well as	P68×	x designated conr	nectors		<b>Notes:</b> 1- Used for m	neasuring or supplyi	ng external Clocks.		
	Pitch:	1.27mm (0.05")	) High Speed c	onnector							153.0nn			
_ c	Mates with : Samtec Molex H	Any and all FM where xxx is 10 I-SPEED HI-DEN SEAM SADL S SEAF-040-08.0	IC VITA 57.1 cc DL, 10, 8.5L 8.5 NSITY SEARRA SEAMP SEAR S D-L-10-2-A SEA	ompliant desig AY design con SEAMI SEAC I AF-040-08-L-1	n CC-LPC-xxx ( nectors. FMC HPC LCP	CC-H	laughter board to H IPC-xxx MC-HPC-:	xxx MC-LPC-xxx			Zâng ZX00SMA- 193494 Zăng ZX00SMA-IPE	EX37-P		
					ted, table below:		Array 400	<b>-X Mates with a</b> ny pins design. Meg-/	Array 10 rows x 40	) pins FPGA Mezz				
	ZX18x FMC brea	kout adapter mat SEARAY™	es with the follow VITA 57.1 Connec	-	olex CC / MC			ck Height: 4mm 6 ordia GR-1217-COR				1	PLI	UG (P
	Molex PN	Samtec PN	VITA PN	Description	Mated Stack Height		FGJ ZX18x-	F-X FCI Meg-Array	-	FMC breakout ada CI Meg-Array VITA	-			ACK (J
		ASP-127796-01* ASP-134485-01*	CC-LPC-10L CC-HPC-10L	female female			Plug (	<u>(()</u>	-	Receptacle ( MC	;)		07	
в		ASP-134486-01	CC-HPC-10	female			84520-002LF	84740-002LF	74221-001LF	74388-001LF	· · · · · · · · · · · · · · · · · · ·			
		ASP-134603-01 ASP-134601-01*	CC-LPC-10 MC-HPC-8.5L	female male	8.5 mm	┤┟	84520-101LF	84740-102LF	74221-101LF		74390-101LF	-		
		ASP-134602-01	MC-HPC-8.5	male	8.5 mm	┤┝	84520-202LF* 84520-092LF	84740-202LF 84740-092LF	74221-201LF 74221-091LF	74388-201LF 74388-091LF	74390-201LF 74390-091LF	{		
	45970-4107 A	ASP-134605-01*	MC-LPC-8.5L	male	8.5 mm	1	84520-192LF	84740-192LF	74221-191LF		74390-191LF		Ŀ	71
14		ASP-134606-01	MC-LPC-8.5	male	8.5 mm		84520-292LF	84740-292LF	74221-291LF	74388-291LF	74390-201LF			ZE
		ASP-127797-01	MC-LPC-10L	male	10 mm		6mm Plug	0mm Plug	4mm	6mm	8mm			VW
		ASP-134487-01 ASP-134488-01	MC-HPC-10L MC-HPC-10	male male	10 mm 10 mm	ļĻ			ed Stack Heigh	t		]	s	SPE
Α		ASP-134488-01 ASP-134604-01	MC-LPC-10 MC-LPC-10	male	10 mm		* Used on ZX182P LF : Lead Free	- <b>F-X</b>					A	RE
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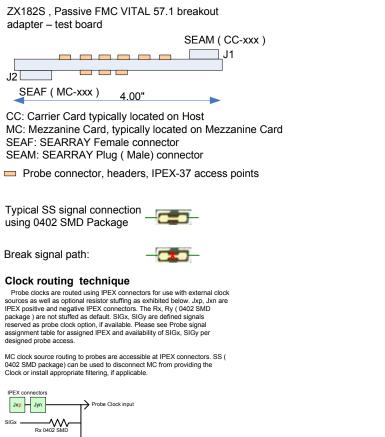
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**Product Name:** 

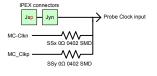
## ZX182S FMC Vita 57.1 Agilent Samtec porbe E5379A test board - breakout adapter – passive FPGA Mezzanine Card

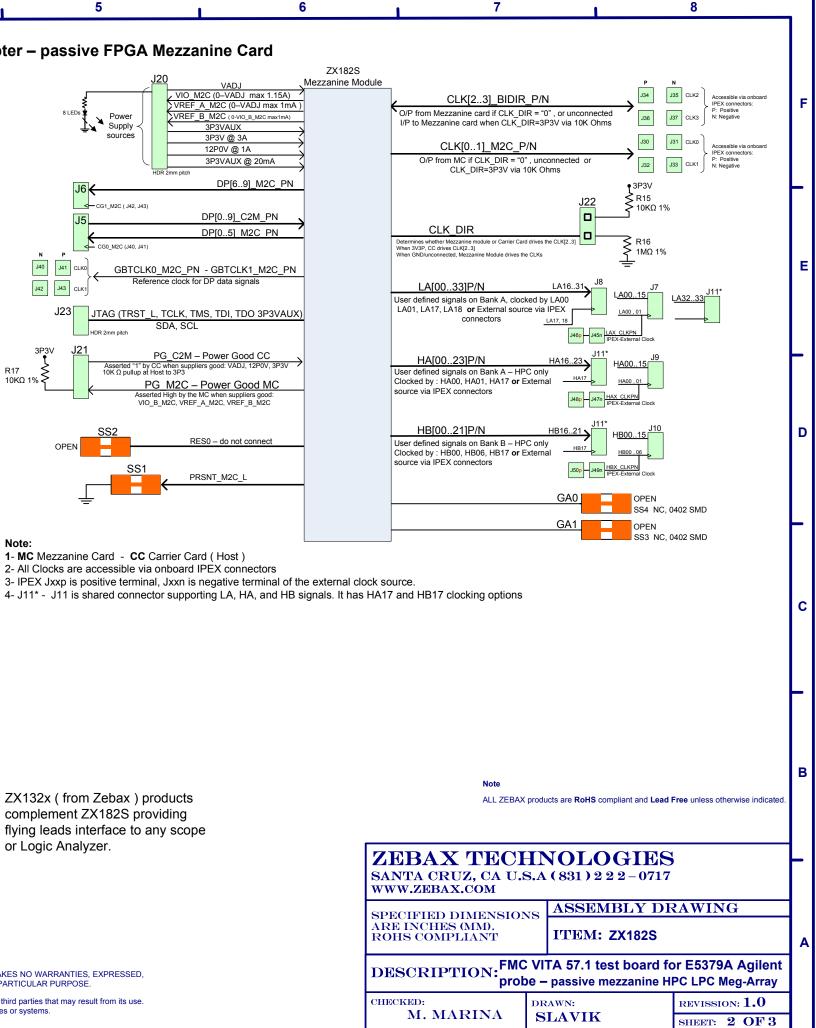


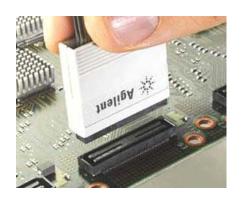
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# **Probe signal map:** Below are signal and clock mapping for the designated probe connectors

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FIODe	SIL	jiidi	ma	р. в	selow are
Assigned	Pin	Signal	I5 Signal	Pin	Assigned
GND	1	GND	GND	2	GND
NC	3	NC	NC	4	NC
GND	5	GND	GND	6	GND
DP0-C2M-N GND	9	D0- GND	D0+ GND	8 10	DP0-C2M-P GND
DP1-C2M-N	11	D1-	D1+	10	DP1-C2M-P
GND	13	GND	GND	14	GND
DP2-C2M-N	15	D2-	D2+	16	DP2-C2M-P
GND	17	GND	GND	18	GND
DP3-C2M-N	19	D3-	D3+	20	DP3-C2M-P
GND	21 23	GND D4-	GND D4+	22 24	GND DD4 C3M D
DP4-C2M-N GND	25	GND	GND	24	DP4-C2M-P GND
DP5-C2M-N	27	D5-	D5+	28	DP5-C2M-P
GND	29	GND	GND	30	GND
DP6-C2M-N	31	D6-	D6+	32	DP6-C2M-P
GND	33	GND	GND	34	GND
DP7-C2M-N GND	35	D7- GND	D7+ GND	36 38	DP7-C2M-P GND
DP8-C2M-N	39	D8-	D8+	40	DP8-C2M-P
GND	41	GND	GND	42	GND
DP9-C2M-N	43	D9-	D9+	44	DP9-C2M-P
GND	45	GND	GND	46	GND
DP0-M2C-N	47	D10-	D10+	48	DPO-M2C-P
GND DP1-M2C-N	49 51	GND D11-	GND D11+	50 52	GND DP1-M2C-P
GND	53	GND	GND	54	GND
DP2-M2C-N	55	D12-	D12+	56	DP2-M2C-P
GND	57	GND	GND	58	GND
DP3-M2C-N	59	D13-	D13+	60	DP3-M2C-P
GND	61	GND D14	GND	62	GND
DP4-M2C-N GND	63 65	D14- GND	D14+ GND	64 66	DP4-M2C-P GND
DP5-M2C-N	67	D15-	D15+	68	DP5-M2C-P
GND	69	GND	GND	70	GND
NC	71	NC	NC	72	NC
GND	73	GND	GND	74	GND
NC	75	NC GND	NC GND	76	NC
GND GBTCLK0-M2C-N	77	GND	GND	78	GND GBTCLK0-M2C-P
(J40 - SS18)	79	D16-CLK-	D16-CLK+	80	(J41 - SS19)
GND	81	GND	GND	82	GND
NC	83	NC	NC	84	NC
GND	85	GND NC	GND NC	86 88	GND NC
NC				90	NC
NC NC	87 89	NC	NC		
NC NC NC	87 89 91	NC NC	NC NC	92	NC
NC	89				NC GND
NC NC GND GND	89 91 93 95	NC GND GND	NC GND GND	92 94 96	GND GND
NC NC GND	89 91 93	NC GND GND NC NC	NC GND	92 94	GND
NC NC GND NC NC Assigned	89 91 93 95 97 99 99	NC GND NC NC Signal	NC GND GND NC NC Signal	92 94 96 98 100 Pin	GND GND NC NC Assigned
NC NC GND NC NC Assigned GND NC	89 91 93 95 97 99 99 <b>Pin</b> 1 3	NC GND GND NC NC Signal GND NC	NC GND GND NC NC 6 Signal GND NC	92 94 96 98 100 Pin 2 4	GND GND NC NC Assigned GND NC
NC NC GND GND NC NC Assigned GND NC GND	89 91 93 95 97 99 99 <b>Pin</b> 1 3 5	NC GND NC NC Signal GND NC GND	NC GND NC NC Signal GND NC GND	92 94 96 98 100 <b>Pin</b> 2 4 6	GND GND NC NC Assigned GND NC GND
NC NC GND MC NC Assigned GND NC GND DP6-M2C-N	89 91 93 95 97 99 99 <b>Pin</b> 1 3	NC GND GND NC NC Signal GND NC GND D0-	NC GND GND NC NC GND GND D0+	92 94 96 98 100 Pin 2 4	GND GND NC NC Assigned GND NC GND DP1- <b>M2C</b> -P
Assigned Assigned NC Assigned OPG-M2C-N GND	89 91 93 95 97 99 99 Pin 1 3 5 7	NC GND NC NC Signal GND NC GND	NC GND NC NC Signal GND NC GND	92 94 96 98 100 Pin 2 4 6 8	GND GND NC NC NC GND C GND DP1- <b>M2C</b> -P GND
NC NC GND MC NC Assigned GND NC GND DP6-M2C-N	89 91 93 95 97 99 99 <b>Pin</b> 1 3 5 7 9	NC GND GND NC NC Signal GND NC GND GND	NC GND GND NC NC Signal GND GND D0+ GND	92 94 96 98 100 Pin 2 4 6 8 10	GND GND NC NC Assigned GND NC GND DP1- <b>M2C</b> -P
NC NC GND GND NC NC Assigned Assigned OND DP6-M22-N GND DP7-M2C-N GND DP8-M22-N	89 91 93 95 97 99 99 99 99 11 1 3 5 7 9 9 11 13 15	NC GND NC NC Signal GND NC GND D0- GND D1- GND D1- GND D2-	NC           GND           GND           NC           NC           Signal           GND           NC           GND           D0+           GND           D0+           GND           D1+           GND           D2+	92 94 96 98 100 Pin 2 4 6 8 10 12 14 16	GND GND NC NC NC GND D1-M2C-P GND DP1-M2C-P GND DP1-M2C-P GND
NC NC GND NC NC Assigned GND DP6-M2C-N GND DP7-M2C-N GND DP8-M2C-N GND	89 91 93 97 97 99 99 <b>Pin</b> 1 3 5 7 9 11 13 15 17	NC GND NC NC Signal GND NC GND D0- GND D1- GND D1- GND D2- GND	NC           GND           NC           NC           Signal           GND           NC           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND	92 94 96 98 100 Pin 2 4 6 8 10 12 14 16 18	GND GND NC NC NC GND DP1- <b>M2C</b> -P GND DP1- <b>M2C</b> -P GND DP1- <b>M2C</b> -P GND
NC NC GND GND NC NC Assigned GND NC GND DP6-M2C-N GND DP7-M2C-N GND DP8-M2C-N GND DP8-M2C-N	89 91 93 95 97 99 99 99 11 1 3 5 7 7 9 11 13 15 17 19	NC GND NC NC Signal GND NC GND D0- GND D1- GND D1- GND D2- GND D2- GND D3-	NC GND NC NC Signal GND NC GND D0+ GND D1+ GND D2+ GND D2+ GND D3+	92 94 96 98 100 <b>Pin</b> 2 4 6 8 10 12 14 16 18 20	GND           GND           NC           NC           MC           MC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND
NC NC GND NC NC Assigned GND DP6-M2C-N GND DP7-M2C-N GND DP8-M2C-N GND	89 91 93 97 97 99 99 <b>Pin</b> 1 3 5 7 9 11 13 15 17	NC GND NC NC Signal GND NC GND D0- GND D1- GND D1- GND D2- GND	NC           GND           NC           NC           Signal           GND           NC           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND	92 94 96 98 100 Pin 2 4 6 8 10 12 14 16 18	GND GND NC NC NC GND DP1- <b>M2C</b> -P GND DP1- <b>M2C</b> -P GND DP1- <b>M2C</b> -P GND
NC NC GND GND NC NC NC SND PR-M2C-N DP8-M2C-N GND DP8-M2C-N GND DP8-M2C-N GND	89 91 95 97 99 99 <b>Pin</b> 1 3 5 7 9 9 11 13 15 17 19 21	NC GND NC NC NC Signal GND NC GND D0- GND D1- GND D2- GND D3- GND D3- GND	NC           GND           GND           NC           NC           Signal           GND           NC           GND           D0+           D0+           GND           D1+           GND           D2+           GND           D3+           GND	92 94 96 98 100 <b>Pin</b> 2 4 6 8 10 12 14 16 18 12 14 16 20 22	CND GND NC NC NC NC GND DP1-M2C-P GND DP1-M2C-P GND DP1-M2C-P GND DP1-M2C-P GND
NC NC GND GND NC NC Assigned GND DP6-M2C-N GND DP7-M2C-N GND DP8-M2C-N GND DP8-M2C-N GND DP8-M2C-N GND NC GND NC NC	89 91 95 97 99 99 11 13 5 7 9 11 13 15 17 19 21 23 25 27	NC           GND           GND           NC           NC           Signal           GND           NC           GND           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-	NC           GND           GND           MC           NC           NC           Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D3+           GND           D3+           GND           D4+           GND           D5+	92 94 96 98 100 2 4 6 8 10 12 14 16 8 20 22 24 24 26 28	GND GND NC NC NC NC GND DP1-M2C-P GND DP1-M2C-P GND DP1-M2C-P GND DP1-M2C-P GND NC GND NC
NC NC GND GND NC NC Assigned GND NC GND DP6-M2C-N GND DP7-M2C-N GND DP8-M2C-N GND DP8-M2C-N GND NC GND NC GND NC GND	89 91 93 95 97 99 99 99 11 13 5 7 7 9 11 13 15 17 19 21 23 25 27 29	NC           GND           GND           NC           NC           Signal           GND           GND           GND           GND           GND           GND           GND           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND	NC           GND           GND           MC           NC           NC           Signal           GND           D0+           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND	92 94 96 98 100 2 4 6 8 10 12 14 16 18 20 22 24 26 8 30	GND           GND           NC           NC           MC           MC           MC           GND           NC           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           NC           GND
NC NC GND GND NC NC Assigned MC SND PG-M2C-N GND DP6-M2C-N GND DP8-M2C-N GND DP8-M2C-N GND DP8-M2C-N C GND NC GND NC GND	89 91 93 95 97 99 99 99 99 99 99 99 11 13 15 7 7 9 11 13 15 77 22 23 22 27 22 9 31	NC           GND           GND           MC           NC           Signal           GND           NC           GND           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D6-	NC           GND           GND           MC           NC           NC           Signal           GND           NC           GND           GND           GND           D0+           GND           D2+           GND           D2+           GND           D3+           GND           D5+           GND           D6+	92 94 96 98 100 2 4 6 8 10 6 8 10 12 14 16 8 12 14 16 8 20 22 24 26 28 30 32	CND GND NC NC NC NC GND DP1-M2C-P GND DP1-M2C-P GND DP1-M2C-P GND NC C GND NC GND NC GND NC GND NC NC GND NC NC NC NC NC NC NC NC NC NC
NC NC GND GND NC NC Assigned GND NC GND DP6-M2C-N GND DP7-M2C-N GND DP8-M2C-N GND DP8-M2C-N GND NC GND NC GND NC GND	89 91 93 95 97 99 99 99 11 13 5 7 7 9 11 13 15 17 19 21 23 25 27 29	NC           GND           GND           NC           NC           Signal           GND           MC           MR           GND           D0-           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D6-           GND	NC           GND           GND           MC           NC           NC           Signal           GND           D0+           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND	92 94 96 98 100 2 4 6 8 10 12 14 16 18 20 22 24 26 8 30	GND           GND           NC           NC           MC           MC           GND           NC           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           NC           GND           NC           GND
NC NC GND GND NC NC Assigned GND NC GND DF6-M2C-N GND DF8-M2C-N GND DF8-M2C-N GND NC GND NC GND NC GND NC GND NC	89 91 93 95 97 99 99 11 13 3 5 7 9 9 11 13 15 17 19 21 23 25 27 29 31 33	NC           GND           GND           MC           NC           Signal           GND           NC           GND           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D6-	NC           GND           GND           MC           NC           Signal           GND           MC           MC           Signal           GND           D0+           D0+           GND           D0+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND           D5+           GND	92 94 96 98 100 2 4 6 8 8 10 12 2 4 6 8 8 10 12 14 16 18 8 20 22 24 24 26 28 30 32 33 34	GND           GND           NC           NC           GND           NC           Signed           GND           NC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           NC           GND           NC           GND           NC           GND           NC           GND           NC           GND
NC NC GND GND NC NC Assigned GND NC GND DP6-M2C-N GND DP7-M2C-N GND DP8-M2C-N GND NC GND NC GND NC GND NC GND NC GND	89 91 93 95 97 99 99 99 99 99 99 99 99 99 99 99 99	NC           GND           GND           GND           NC           NC           Signal           GND           GND           GND           GND           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND           D6-           GND           D7-           GND           D8-           D8-           D8-	NC           GND           GND           GND           NC           NC           Signal           GND           MC           Signal           GND           D0+           D0+           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D6+           GND           D7+           GND           D8+	92 94 96 98 98 100 2 4 6 8 10 12 12 14 16 18 20 22 24 26 28 30 32 23 4 36 38 340	GND           GND           NC           NC           NC           MC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DC           GND           NC
NC           NCC           GND           GND           NC           Assigned           GND           PS-M2C-N           GND           DP6-M2C-N           GND           DP8-M2C-N           GND           DP8-M2C-N           GND           DR-M2C-N           GND           DR-M2C-N           GND           NC           GND	89 91 93 95 97 97 97 99 99 11 13 5 7 7 9 11 13 15 15 17 7 21 22 25 27 29 23 13 35 37 39 41	NC           GND           GND           NC           NC           Signal           GND           GND           GND           GND           D0-           GND           D1-           GND           D3-           GND           D4-           D5-           GND           D4-           D5-           GND           D4-           D5-           GND           D6-           GND           D8-           GND           D8-           GND           D8-           GND           D8-           GND           D8-           GND	NC           GND           GND           GND           NC           NC           Signal           GND           NC           Signal           GND           D0+           D0+           GND           D0+           GND           D0+           GND           D3+           GND           D3+           GND           D4+           GND           D5+           GND           D6+           GND           D8+           GND           D6+           GND           D8+           GND	92 94 96 98 98 98 98 98 98 98 98 98 98 98 98 98	GND           GND           NC           Assigned           GND           NC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND
NC NC GND GND NC NC Assigned GND NC GND DF6-M2C-N GND DF6-M2C-N GND DF8-M2C-N GND NC C GND NC C C C C C C C C C C C C C C C C C	89 91 93 95 97 99 99 99 99 99 99 99 99 99 99 11 13 5 7 7 9 11 13 15 17 12 2 12 25 27 29 21 33 35 35 37 73 99 41	NC GND GND NC Signal GND NC GND D2- GND D2- GND D3- GND D3- GND D3- GND D3- GND D3- GND D3- GND D4- GND D4- GND D5- GND D5- GND D5- GND D5- GND C SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN	NC           GND           GND           GND           NC           NC           Signal           GND           OND           OND           DOH           DOH           D1+           GND           D2+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D5+           GND           D5+           GND           D4+           GND           D5+           GND           D5+	92 94 96 98 100 2 4 4 6 8 8 100 2 2 4 4 6 8 8 100 12 14 16 18 20 12 24 22 24 22 23 23 32 33 34 36 38 8 40 44	GND           GND           NC           NC           MC           GND           NC           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC
NC           NC           GND           GND           NC           NC           NC           Assigned           GND           SC           MC           NC           GND           PF-M2C-N           GND           DP8-M2C-N           MC           GND           NC           GND	89 91 93 95 97 97 97 97 97 97 97 97 11 13 15 15 17 17 19 21 23 25 27 29 31 33 35 37 37 39 941 43	NC           GND           GND           NC           Signal           GND           GND           GND           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           D7-           GND           D6-           GND           D6-           GND           D6-           GND           D6-           GND           D6-           GND           D6-           GND           D7-           GND           D8-           GND           D9-           GND           D9-           GND           D9-           GND           D9-           GND           D9-           GND           D9-	NC           GND           GND           GND           NC           NC           Signal           GND           NC           Signal           GND           D0+           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D3+           GND           D4+           GND           D5+           GND           D7+           GND           D8+           GND           D8+           GND	92 94 96 98 100 2 4 6 8 8 100 12 14 6 6 8 8 10 112 14 16 16 18 20 222 24 26 28 30 322 34 36 38 30 40 42 44 46	CND GND NC NC NC NC NC GND DP1-M2C-P GND DP1-M2C-P GND DP1-M2C-P GND NC
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NC NC GND GND NC NC Assigned GND DP6-M2C-N GND DP7-M2C-N GND DP8-M2C-N GND DP8-M2C-N GND NC C GND NC C GND NC C C C C C C C C C C C C C C C C C	89 91 93 95 97 97 99 99 <b>Pin</b> 1 3 3 5 7 7 9 11 13 15 7 7 9 11 13 15 7 7 21 23 25 27 29 31 33 5 35 34 41 43 45 447	NC           GND           GND           GND           NC           NC           NC           NC           NC           Signal           GND           GND           GND           D0-           GND           D1-           GND           D3-           GND           D4-           GND           D5-           GND           D6-           GND           D7-           GND           D6-           GND           D7-           GND           D6-           GND           D7-           GND           D6-           GND           D7-           GND           D8-           GND           D9-           GND           D10-           GND           D11-	NC           GND           GND           GND           NC           NC           Signal           GND           MD           MD           MD           GND           D0+           GND           D0+           GND           D0+           GND           D0+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND           D5+           GND           D5+           GND           D5+           GND           D5+           GND           D5+           GND           D6+           GND           D8+           GND           D9+           GND           D10+           GND           D10+           GND	92 94 96 98 100 2 4 6 6 8 8 100 12 14 16 18 12 14 16 18 20 22 24 26 28 30 32 34 34 6 40 44 22 24 44 6 52 52	CND GND NC NC NC NC GND DP1-M2C-P GND DP1-M2C-P GND DP1-M2C-P GND DP1-M2C-P GND NC
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NC           NC           GND           GND           NC           NC           NC           NC           MSSigned           NC           Signed           NC           GND           PF-M2C-N           GND           PF-M2C-N           GND           NC           GND	89 91 93 95 97 97 99 99 99 11 13 3 5 7 9 11 13 15 17 7 9 11 13 25 27 29 31 33 35 37 7 29 21 41 43 45 45 45 53 55 55 95	NC           GND           GND           GND           NC           Signal           GND           GND           GND           GND           GND           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND           D8-           GND           D10-           D2-           GND           D10-           D11-           GND           D12-           GND           D13-	NC           GND           GND           GND           NC           NC           Signal           GND           MC           Signal           GND           D0+           D0+           D0+           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D4+           GND           D7+           GND           D8+           GND           D1+           GND           D1+           GND           D1+           GND           D10+           GND           D11+           GND           D12+           GND           D13+	92 94 96 96 98 100 2 4 6 6 8 8 100 12 14 16 18 20 22 24 26 28 20 22 24 24 26 28 30 32 24 44 44 6 6 50 55 54 55 8 8 60	GND         GND           GND         NC           NC         NC           GND         DP1-M2C-P           GND         DP1-M2C-P           GND         DP1-M2C-P           GND         DP1-M2C-P           GND         NC           GND
NC           NC           GND           GND           NC           Assigned           GND           Signed           GND           DP6-M2C-N           GND           DP7-M2C-N           GND           DP8-M2C-N           GND           DR-M2C-N           GND           NC           GND           NC <tr tr="">     GND</tr>	89 91 93 95 97 97 97 97 97 97 97 97 11 13 3 5 7 7 9 11 13 15 7 7 9 11 13 15 7 7 9 11 13 35 37 34 31 35 37 39 34 33 55 55 57 9 61 63 65	NC           GND           GND           GND           NC           NC           NC           NC           NC           Signal           GND           GND           GND           D0           D0           D10           D3           GND           D4           GND           D5           GND           D6           GND           D6           GND           D7           GND           D6           GND           D10           GND           D11           GND           D13           GND           D13           GND           D14	NC           GND           GND           Signal           GND           Signal           GND           NC           NC           Signal           GND           D0+           D0+           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D4+           GND           D5+           GND           D6+           GND           D6+           GND           D6+           GND           D5+           GND           D9+           GND           D10+           D10+           GND           D12+           GND           D12+           GND           D14+           GND	92 94 96 98 100 2 4 6 8 8 100 12 14 16 16 8 8 10 12 14 16 16 20 22 24 24 22 24 24 22 24 30 32 34 33 32 34 34 50 52 52 55 52 55 52 55 52 55 56 56 56 56 57 57 57 57 57 57 57 57 57 57 57 57 57	GND           GND           NC           NC           NC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           DP1-M2C-P           GND           NC
NC NC Startes NC NC NC NC NC NC Startes NC NC NC NC NC NC Startes NC NC NC NC Startes NC NC NC NC NC NC NC NC NC NC NC NC NC	89         91           93         93           95         97           99         97           99         97           91         1           3         5           7         9           11         3           5         7           9         13           15         7           19         21           23         23           24         27           29         31           33         35           41         43           45         51           53         55           57         59           61         63           65         67	NC           GND           GND           GND           Signal           GND           GND           GND           GND           GND           D2           GND           D3-           GND           D3-           GND           D4-           GND           D4-           GND           D5-           GND           D4-           GND           D4-           GND           D4-           GND           D4-           GND           D5-           GND           D6-           GND           D7-           GND           D8-           GND           D10-           D3-           GND           D11-           GND           D12-           GND           D13-           GND           D15-	NC           GND           GND           GND           NC           NC           Signal           GND           GND           GND           GND           D0+           GND           D1+           GND           D2+           GND           D2+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D5+           GND           D1+           GND           D1+           GND           D3+           GND           D5+           D10+           GND           D12+           GND           D13+           GND           D15+	92 94 96 98 100 98 100 98 4 6 8 8 100 12 4 4 6 8 8 10 12 14 16 18 20 22 4 4 26 23 30 32 24 24 26 23 4 30 32 24 4 50 52 55 55 55 56 62 66 66 66 66 66 66 66 66 66 66 66 66	GND           GND           NC           NC           Score           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC
NC           NC           GND           GND           NC           Signed           GND           Signed           GND           Signed           GND           PC           GND           PP-M2C-N           GND           PP-M2C-N           GND           NC           GND <t< td=""><td>89 91 93 95 97 97 99 99 11 13 5 7 9 11 13 15 7 7 9 11 13 15 27 21 23 25 27 21 33 35 37 29 21 25 27 29 31 33 5 55 55 55 55 57 96 63 66 66</td><td>NC           GND           GND           GND           NC           Signal           GND           GND           GND           GND           GND           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D4-           GND           D4-           GND           D4-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D10-           D12-           GND           D13-           GND           D13-           GND           D13-           GND           D14-           GND</td><td>NC           GND           GND           GND           NC           NC           Signal           GND           NC           Signal           GND           D0+           D0+           GND           D1+           GND           D2+           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D1+           GND           D4+           GND           D1+           GND           D1+           GND           D1+           GND           D10+           GND           D11+           GND           D12+           GND           D13+           GND           D14+           GND           D15+           GND</td><td>92 94 96 96 98 100 2 4 6 6 8 8 100 12 14 6 6 8 8 10 12 14 16 18 20 22 24 24 26 28 30 32 24 34 36 38 30 40 25 54 55 66 58 60 66 88 70</td><td>GND           GND           NC           NC           NC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           DP1-M2C-P           GND           NC           GND           NC</td></t<>	89 91 93 95 97 97 99 99 11 13 5 7 9 11 13 15 7 7 9 11 13 15 27 21 23 25 27 21 33 35 37 29 21 25 27 29 31 33 5 55 55 55 55 57 96 63 66 66	NC           GND           GND           GND           NC           Signal           GND           GND           GND           GND           GND           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D4-           GND           D4-           GND           D4-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D10-           D12-           GND           D13-           GND           D13-           GND           D13-           GND           D14-           GND	NC           GND           GND           GND           NC           NC           Signal           GND           NC           Signal           GND           D0+           D0+           GND           D1+           GND           D2+           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D1+           GND           D4+           GND           D1+           GND           D1+           GND           D1+           GND           D10+           GND           D11+           GND           D12+           GND           D13+           GND           D14+           GND           D15+           GND	92 94 96 96 98 100 2 4 6 6 8 8 100 12 14 6 6 8 8 10 12 14 16 18 20 22 24 24 26 28 30 32 24 34 36 38 30 40 25 54 55 66 58 60 66 88 70	GND           GND           NC           NC           NC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           DP1-M2C-P           GND           NC
NC NC Startes NC NC NC NC NC NC Startes NC NC NC NC NC NC Startes NC NC NC NC Startes NC NC NC NC NC NC NC NC NC NC NC NC NC	89         91           93         93           95         97           99         97           99         97           91         1           3         5           7         9           11         3           5         7           9         13           15         7           19         21           23         23           24         27           29         31           33         35           41         43           45         51           53         55           57         59           61         63           65         67	NC           GND           GND           GND           Signal           GND           GND           GND           GND           GND           D2           GND           D3-           GND           D3-           GND           D4-           GND           D4-           GND           D5-           GND           D4-           GND           D4-           GND           D4-           GND           D4-           GND           D5-           GND           D6-           GND           D7-           GND           D8-           GND           D10-           D3-           GND           D11-           GND           D12-           GND           D13-           GND           D15-	NC           GND           GND           GND           NC           NC           Signal           GND           GND           GND           GND           D0+           GND           D1+           GND           D2+           GND           D2+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D5+           GND           D1+           GND           D1+           GND           D3+           GND           D5+           D10+           GND           D12+           GND           D13+           GND           D15+	92 94 96 98 100 98 100 98 4 6 8 8 100 12 4 4 6 8 8 10 12 14 16 18 20 22 4 4 26 23 30 32 24 24 26 23 4 30 32 24 4 50 52 55 55 55 56 62 66 66 66 66 66 66 66 66 66 66 66 66	GND           GND           NC           NC           Score           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC
NC NC Startes Startes	89         91           93         93           95         97           99         97           99         91           1         3           5         7           9         11           13         15           17         19           21         23           25         27           29         31           33         35           37         39           41         43           45         55           57         59           61         63           65         67           67         69           71         73	NC           GND           GAD           GAD           Signal           GND           Signal           GND           Signal           GND           GND           GND           D2-           GND           D2-           GND           D3-           GND           D4-           GND           D4-           GND           D5-           GND           D4-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D10-           D3-           D10-           GND           D11-           GND           D13-           GND           D14-           GND           D15-           GND           D15-	NC           GND           GND           GND           NC           NC           Signal           GND           GND           GND           MC           NC           Signal           GND           D0+           D2+           GND           D2+           GND           D4+           GND           D4+           GND           D5+           GND           D8+           GND           D9+           GND           D1+           GND           D1+           GND           D3+           GND           D5+           GND           D1+           GND	92 94 96 98 100 98 100 98 4 6 8 8 100 12 4 4 6 8 8 10 12 14 16 18 20 22 24 24 26 30 32 24 24 26 33 33 34 36 52 52 54 55 52 54 56 62 66 62 66 67 72	GND           GND           NC           NC           Signed           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           NC      <
NC NC NC GND NC NC NC NC NC SND SND SND SND SND SND SND SND SND SND	89         91           93         93           95         97           99         99           91         1           3         5           7         9           11         13           15         17           19         11           13         35           27         12           21         21           23         33           35         37           39         41           43         45           47         9           51         53           55         57           59         61           63         667           67         669           71         73	NC           GND           GND           GND           NC           Signal           GND           NC           GND           GND           GND           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D10-           D8-           GND           D10-           D112-           GND           D13-           GND           D14-           GND           NC           GND           NC           GND	NC           GND           GND           GND           NC           NC           Signal           GND           MC           Signal           GND           D0-           D0-           D1+           GND           D1+           GND           D2+           GND           D3+           D3+           GND           D4+           GND           D1+           GND           D11+           GND           D12+           GND           D13+           GND           D15+           GND           NC           GND	92 94 96 96 98 100 72 4 6 8 8 100 72 4 6 8 8 10 12 74 4 6 8 8 10 12 2 4 4 6 6 8 8 10 12 2 4 4 26 28 30 32 24 24 26 28 30 32 24 24 6 6 8 8 10 9 6 9 6 9 8 100 7 10 9 7 10 9 10 9 8 100 10 10 10 10 10 10 10 10 10 10 10 10	GND           GND           NC           NC           NC           NC           NC           SND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC
NC           NC           GND           GND           NC           Assigned           GND           Signed           MC           NC           GND           PF-M2C-N           DP8-M2C-N           DP8-M2C-N           GND           DP8-M2C-N           GND           NC           GND     <	89         91           93         93           95         97           99         97           99         91           1         3           5         7           9         11           13         15           17         19           21         23           25         27           29         31           33         35           37         39           41         43           45         55           57         59           61         63           65         67           67         69           71         73	NC           GND           GND           GND           NC           Signal           GND           NC           SNC           GND           GND           GND           D0-           GND           D0-           GND           D3-           GND           D4-           GND           D4-           GND           D5-           GND           D6-           GND           D7-           GND           D6-           GND           D7-           GND           D3-           GND           D4-           GND           D5-           GND           D10-           D11-           GND           D13-           GND           D13-           GND           D14-           NC           GND           NC	NC           GND           GND           GND           NC           NC           Signal           GND           MC           NC           GND           D0+           D1+           GND           D2+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND           D1+           GND           D1+           GND           D1+           GND           D1+           GND           D1+           GND           D1+           GND           D1+ <t< td=""><td>92 94 96 98 100 98 100 98 4 6 8 8 100 12 4 4 6 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 23 4 34 36 52 54 55 55 55 56 55 56 57 70 72 72 74 76</td><td>GND           GND           NC           NC           NC           GND           MC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           C</td></t<>	92 94 96 98 100 98 100 98 4 6 8 8 100 12 4 4 6 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 23 4 34 36 52 54 55 55 55 56 55 56 57 70 72 72 74 76	GND           GND           NC           NC           NC           GND           MC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           C
NC           NC           GND           GND           NC           Assigned           GND           Assigned           GND           PS-M2C-N           DP6-M2C-N           GND           DP7-M2C-N           GND           DP8-M2C-N           GND           NC	89         91           93         93           95         97           99         97           99         91           1         3           3         5           7         9           11         3           15         7           9         11           13         35           27         29           21         22           27         29           33         35           37         39           41         43           45         51           53         55           57         59           61         63           65         667           67         77           78         77	NC           GND           GND           GND           NC           GND           GND           GND           GND           GND           GND           GND           D2-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D10-           D11-           D11-           D11-           GND           D12-           GND           D13-           GND           D14-           GND           D15-           GND           NC           GND           D16-CLK-	NC           GND           GND           GND           NC           NC           Signal           GND           GND           GND           GND           D0-           D1+           GND           D2+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND           D5+           GND           D1+           GND           D1+           GND           D1+           GND           D1+           GND           D1+           GND           D1+           GND           D10+           D10+           D11+           GND           D12+           GND           D14+           GND           D15+           GND           NC           GND           D15- <td>92 94 96 98 100 98 100 98 100 98 4 4 6 8 8 100 12 4 4 6 8 8 10 12 2 4 4 26 30 32 24 24 26 30 32 24 30 32 24 4 6 6 8 8 96 52 52 54 55 55 55 66 66 66 66 67 72 77 66 88 80 72 77 88 80</td> <td>GND           GND           NC           NC           NC           Signed           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND      &lt;</td>	92 94 96 98 100 98 100 98 100 98 4 4 6 8 8 100 12 4 4 6 8 8 10 12 2 4 4 26 30 32 24 24 26 30 32 24 30 32 24 4 6 6 8 8 96 52 52 54 55 55 55 66 66 66 66 67 72 77 66 88 80 72 77 88 80	GND           GND           NC           NC           NC           Signed           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND      <
NC NC Startes Startes NC NC NC NC NC NC SND PF-M2C-N SND PF-M2C-N SND PF-M2C-N SND SND SND SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND NC SND SND SND SND SND SND SND SND SND SND	89         91           93         93           95         97           99         97           99         11           3         5           7         9           11         13           15         7           9         11           13         35           31         35           33         35           33         35           34         45           47         49           53         55           57         59           61         63           65         67           67         69           71         73           75         77	NC           GND           GND           GND           Signal           GND           Signal           GND           Signal           GND           GND           GND           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND           D10-           GND           D11-           GND           D13-           GND           D14-           GND           D15-           GND           D15-           GND           D15-           GND	NC           GND           GND           GND           NC           NC           Signal           GND           GND           GND           D0+           D1+           GND           D2+           GND           D2+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND           D8+           GND           D9+           GND           D10+           D10+           D11+           GND           D12+           GND           D14+           GND           D15+           GND	92 94 96 98 100 98 100 98 4 6 8 100 12 4 6 8 10 12 14 16 18 20 22 4 24 26 28 30 32 34 36 38 34 40 42 24 44 46 6 8 8 50 52 54 55 6 56 62 66 62 66 62 67 72 74 8	GND           GND           NC           NC           NC           GND           MC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           C
NC           NC           GND           GND           NC           Signed           GND           Signed           GND           Signed           GND           PF-M2C-N           GND           PP-M2C-N           GND           NC           GND <t< td=""><td>89         91           93         93           95         97           99         97           99         91           1         3           3         5           7         9           11         13           15         17           19         21           23         25           27         23           31         35           37         29           41         43           45         53           55         57           9         61           63         667           669         71           77         79           81         1</td><td>NC           GND           GND           GND           NC           Signal           GND           NC           Signal           GND           Ch           GND           D1-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND           D4-           GND           D4-           GND           D5-           GND           D10-           D8-           GND           D10-           D13-           GND           D15-           GND           NC           GND           D15-           GND           D15-           GND           D15-           GND           D15-           GND</td><td>NC           GND           GND           GND           NC           NC           NC           Signal           GND           GND           D0+           D0+           D1+           GND           D2+           D3+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D5+           GND           D7+           GND           D7+           GND           D7+           GND           D1+           GND           D12+           GND           D12+           GND           D12+           GND           D13+           GND           NC           GND           NC           GND           D15+           GND           D16-CLK+           GND     </td></t<> <td>92 94 96 96 98 100 2 4 6 6 8 10 12 4 6 6 8 8 10 12 2 4 14 16 16 18 20 22 24 26 28 30 32 24 26 28 30 32 24 26 55 55 55 55 55 55 55 55 55 55 55 55 55</td> <td>GND           GND           NC           NC           NC           GND           C           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           GNC      G</td>	89         91           93         93           95         97           99         97           99         91           1         3           3         5           7         9           11         13           15         17           19         21           23         25           27         23           31         35           37         29           41         43           45         53           55         57           9         61           63         667           669         71           77         79           81         1	NC           GND           GND           GND           NC           Signal           GND           NC           Signal           GND           Ch           GND           D1-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND           D4-           GND           D4-           GND           D5-           GND           D10-           D8-           GND           D10-           D13-           GND           D15-           GND           NC           GND           D15-           GND           D15-           GND           D15-           GND           D15-           GND	NC           GND           GND           GND           NC           NC           NC           Signal           GND           GND           D0+           D0+           D1+           GND           D2+           D3+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D5+           GND           D7+           GND           D7+           GND           D7+           GND           D1+           GND           D12+           GND           D12+           GND           D12+           GND           D13+           GND           NC           GND           NC           GND           D15+           GND           D16-CLK+           GND	92 94 96 96 98 100 2 4 6 6 8 10 12 4 6 6 8 8 10 12 2 4 14 16 16 18 20 22 24 26 28 30 32 24 26 28 30 32 24 26 55 55 55 55 55 55 55 55 55 55 55 55 55	GND           GND           NC           NC           NC           GND           C           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           GNC      G
NC NC ONC GND Assigned GND DF6-M2C-N DP6-M2C-N GND DF7-M2C-N GND DF7-M2C-N GND DF8-M2C-N GND DF8-M2C-N GND NC C GND NC GND NC GND NC GND NC C GND NC C GND NC C GND NC C GND NC C GND NC C GND NC C GND NC C GND NC C GND NC C GND NC C GND NC C C C C C C C C C C C C C C C C C	89         91           93         93           95         97           99         97           91         1           3         5           7         9           11         13           15         7           91         11           13         25           27         29           31         33           33         33           341         43           45         51           55         57           66         67           67         69           71         73           63         65           67         77           79         61           63         65           67         77           79         81           83         85	NC           GND           GND           GND           NC           NC           Signal           GND           NC           GND           GND           GND           D0-           GND           D3-           GND           D4-           GND           D4-           GND           D5-           GND           D6-           GND           D7-           GND           D6-           GND           D6-           GND           D10-           GND           D11-           GND           D13-           GND           D14-           GND      D15-           GND           NC           GND           NC           GND           NC           GND           NC           GND           NC           GND      NC           GND	NC           GND           GND           GND           NC           NC           Signal           GND           MC           Signal           GND           DO           DO           D10           D2+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D5+           GND           D10+           D11+           GND           D12+      GND           D12+           GND           D14+           GND           D15+           GND           NC           GND           NC           GND           NC           GND	92 94 96 96 98 100 2 4 4 6 6 8 8 100 12 14 16 18 20 22 24 24 26 28 30 32 22 24 24 26 28 30 32 24 44 6 6 6 8 8 30 32 27 24 4 6 6 6 8 8 8 8 8 8 8	GND           GND           NC           NC           NC           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND           DP1-M2C-P           GND           NC           GND           MC
NC NC Startes NC NC NC NC NC NC Startes NC NC NC NC NC NC SND SND SND SND SND SND SND SND SND SND	89         91           93         93           95         97           99         97           99         97           91         1           1         3           5         7           9         1           13         5           7         9           11         13           25         27           20         21           23         33           35         77           29         11           33         35           57         59           53         55           57         59           61         63           65         67           69         71           73         77           79         81           83         85           87         89	NC           GND           GND           GND           Signal           GND           Signal           GND           Signal           GND           Signal           GND           D2-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D4-           GND           D4-           GND           D5-           GND           D10-           D11-           GND           D13-           GND           D14-           GND           D15-           GND           NC           GND           D16-CLK-           GND           NC           GND	NC           GND           GND           GND           NC           NC           NC           Signal           GND           GND           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D1+           GND           D1+           GND           D1+           GND           D10+           D10+           D10+           D10+           D10+           D12+           GND           D14+           GND           D15+           D15+           GND           NC           GND <td>92 94 96 98 100 98 100 98 100 98 4 4 4 6 8 8 10 12 4 4 16 18 20 22 4 14 16 18 20 22 24 24 26 30 32 24 24 26 30 32 24 36 32 32 34 36 52 24 54 55 52 54 55 55 58 66 66 66 67 72 74 76 66 88 00 72 77 80 80 80 80 80 80 80 80 80 80 80 80 80</td> <td>GND           GND           NC           NC           NC           NC           NC           SND           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND</td>	92 94 96 98 100 98 100 98 100 98 4 4 4 6 8 8 10 12 4 4 16 18 20 22 4 14 16 18 20 22 24 24 26 30 32 24 24 26 30 32 24 36 32 32 34 36 52 24 54 55 52 54 55 55 58 66 66 66 67 72 74 76 66 88 00 72 77 80 80 80 80 80 80 80 80 80 80 80 80 80	GND           GND           NC           NC           NC           NC           NC           SND           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND
NC           NC           GND           GND           NC           Signed           GND           Signed           GND           Signed           GND           PF-M2C-N           GND           PP-M2C-N           GND           PP-M2C-N           GND           NC           GND	89         91           93         93           95         97           99         97           99         91           1         3           3         5           7         9           11         13           15         7           9         21           23         25           27         231           33         33           37         39           41         43           43         45           47         49           51         55           57         59           61         66           67         69           71         79           81         83           857         87           89         91	NC           GND           GND           GND           NC           Signal           GND           NC           Signal           GND           Di-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D4-           GND           D4-           GND           D4-           GND           D4-           GND           D5-           GND           D10-           D8-           GND           D10-           D120-           GND           D13-           GND           D15-	NC           GND           GND           GND           NC           NC           Signal           GND           D0+           D0+           D0+           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND           D6+           GND           D7+           GND           D6+           GND           D10+           GND           D12+           GND           D12+           GND           D12+           GND           D12+           GND           D12+           GND           D12+           GND           D13+           GND           D14+           GND           D15-           CK+           GND           D16-           GND           NC	92 94 96 96 98 100 2 4 4 6 6 8 10 12 14 4 6 6 8 10 12 14 16 16 18 20 22 24 26 28 30 32 24 24 26 28 30 32 24 24 46 6 6 8 38 30 32 24 24 56 56 56 57 6 74 76 77 74 76 80 82 88 80 92 92	GND           GND           NC           NC           NC           SND           NC           GND           C           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC
NC NC Startes NC NC NC NC NC NC Startes NC NC NC NC NC NC SND SND SND SND SND SND SND SND SND SND	89         91           93         93           95         97           99         97           99         97           91         1           1         3           5         7           9         1           13         5           7         9           11         13           25         27           20         21           23         33           35         77           29         11           33         35           57         59           53         55           57         59           61         63           65         67           69         71           73         77           79         81           83         85           87         89	NC           GND           GND           GND           Signal           GND           Signal           GND           Signal           GND           Signal           GND           D2-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D4-           GND           D4-           GND           D5-           GND           D10-           D11-           GND           D13-           GND           D14-           GND           D15-           GND           NC           GND           D16-CLK-           GND           NC           GND	NC           GND           GND           GND           NC           NC           NC           Signal           GND           GND           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D1+           GND           D1+           GND           D1+           GND           D10+           D10+           D10+           D10+           D10+           D12+           GND           D14+           GND           D15+           D15+           GND           NC           GND <td>92 94 96 98 100 98 100 98 100 98 4 4 4 6 8 8 10 12 4 4 16 18 20 22 4 14 16 18 20 22 24 24 26 30 32 24 24 26 30 32 24 36 32 32 34 36 52 24 54 55 52 54 55 55 58 66 66 66 67 72 74 76 66 88 00 72 77 80 80 80 80 80 80 80 80 80 80 80 80 80</td> <td>GND           GND           NC           NC           NC           NC           NC           SND           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND</td>	92 94 96 98 100 98 100 98 100 98 4 4 4 6 8 8 10 12 4 4 16 18 20 22 4 14 16 18 20 22 24 24 26 30 32 24 24 26 30 32 24 36 32 32 34 36 52 24 54 55 52 54 55 55 58 66 66 66 67 72 74 76 66 88 00 72 77 80 80 80 80 80 80 80 80 80 80 80 80 80	GND           GND           NC           NC           NC           NC           NC           SND           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           DP1-M2C-P           GND           NC           GND

 NC
 97
 NC
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 98
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1

Assigned	Pin	Signal	Signal	Pin	Assigned
GND	1	GND	GND	2	GND
NC	3	NC	NC	4	NC
GND LA00-N	5	GND D0-	GND D0+	6 8	GND LA00-P
GND	9	GND	GND	10	GND
LA01-N	11	D1-	D1+	12	LA01-P
GND	13	GND	GND	14	GND
LA02-N	15	D2-	D2+	16	LA02-P
GND LA03-N	17 19	GND D3-	GND D3+	18 20	GND LA03-P
GND	21	GND	GND	20	GND
LA04-N	23	D4-	D4+	24	LA04-P
GND	25	GND	GND	26	GND
LA05-N	27	D5-	D5+	28	LA05-P
GND	29	GND	GND	30	GND
LA06-N	31	D6-	D6+	32	LA06-P
GND LA07-N	33	GND D7-	GND D7+	34 36	GND
GND	35	GND	GND	36	GND
LA08-N	39	D8-	D8+	40	LA08-P
GND	41	GND	GND	42	GND
LA09-N	43	D9-	D9+	44	LA09-P
GND	45	GND	GND	46	GND
LA10-N	47	D10-	D10+	48 50	LA10-P
GND LA11-N	49	GND D11-	GND D11+	50	GND LA11-P
GND	53	GND	GND	54	GND
LA12-N	55	D12-	D12+	56	LA12-P
GND		GND	GND	58	GND
LA13-N	59	D13-	D13+	60	LA13-P
GND		GND	GND	62	GND
LA14-N	63	D14-	D14+	64	LA14-P
GND LA15-N	65 67	GND D15-	GND D15+	66 68	GND LA15-P
GND	69	GND	GND	70	GND
NC	71	NC	NC	70	NC
GND	73	GND	GND	74	GND
NC	75	NC	NC	76	NC
GND	77	GND	GND	78	GND
XLA-CLKN - J45					XLA-CLKP - J46
LA00-N (R20)	79	D16-CLK-	D16-CLK+	80	(R22)LA00-P
LA01-N (R21) GND	81	GND	GND	82	( R23 ) LA01-P GND
GND	81	NC	NC	84	NC
GND	85	GND	GND	86	GND
NC	87	NC	NC	88	NC
NC	89	NC	NC	90	NC
NC	91	NC	NC	92	NC
GND	93	GND	GND	94	GND
GND	95	GND NC	GND NC	96 98	GND NC
NC	99	NC	NC	100	NC
And 1	P.		18	8.	A1
Assigned	Pin	Signal	Signal	Pin	Assigned
GND	Pin 1 3	Signal GND	Signal GND	2	GND
	1	Signal	Signal		
GND NC GND	1 3	Signal GND NC	Signal GND NC	2	GND NC GND
GND NC GND	1 3 5	Signal GND NC GND	Signal GND NC GND	2 4 6	GND NC GND LA16-P GND
GND NC GND LA16-N GND LA17-N	1 3 5 7 9 11	Signal GND NC GND D0- GND D1-	Signal GND NC GND D0+ GND D1+	2 4 6 8 10 12	GND NC GND LA16-P GND LA17-P
GND NC GND LA16-N GND LA17-N GND	1 3 5 7 9 11 13	Signal GND NC GND D0- GND D1- GND	Signal GND NC GND D0+ GND D1+ GND	2 4 6 8 10 12 14	GND NC GND LA16-P GND LA17-P GND
GND NC GND LA16-N GND LA17-N GND LA18-N	1 3 7 9 11 13 15	Signal GND NC GND D0- GND D1- GND D2-	Signal GND NC GND D0+ GND D1+ GND D2+	2 4 6 8 10 12 14 16	GND NC GND LA16-P GND LA17-P GND LA18-P
GND NC GND LA16-N GND LA17-N GND LA18-N GND	1 3 5 7 9 11 13 15 17	Signal GND NC GND D0- GND D1- GND D2- GND	Signal GND NC GND D0+ GND D1+ GND D2+ GND	2 4 6 8 10 12 14 16 18	GND NC GND LA16-P GND LA17-P GND LA18-P GND
GND NC GND LA16-N GND LA17-N GND LA18-N GND LA19-N	1 3 5 7 9 11 13 15 17 19	Signal GND NC GND D0- GND D1- GND D2- GND D3-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+	2 4 6 8 10 12 14 16 18 20	GND NC GND LA16-P GND LA17-P GND LA18-P GND LA19-P
GND NC GND LA16-N GND LA17-N GND LA18-N	1 3 5 7 9 11 13 15 17 19	Signal GND NC GND D0- GND D1- GND D2- GND	Signal GND NC GND D0+ GND D1+ GND D2+ GND	2 4 6 8 10 12 14 16 18	GND NC GND LA16-P GND LA17-P GND LA18-P GND
GND NC GND LA16-N GND LA17-N GND LA18-N GND LA19-N GND	1 3 5 7 9 11 13 15 17 19 21 23	Signal GND NC GND D0- GND D1- GND D2- GND D2- GND D3- GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND	2 4 6 8 10 12 14 16 18 20 22	GND NC GND LA16-P GND LA17-P GND LA18-P GND LA19-P GND
GND NC GND LA16-N GND LA17-N GND LA19-N GND LA19-N GND LA20-N GND LA21-N	1 3 5 7 9 11 13 15 17 17 19 21 23 25 27	Signal           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D5+	2 4 6 8 10 12 14 16 18 20 22 24 26 28	GND NC GND LA16-P GND LA17-P GND LA18-P GND LA19-P GND LA20-P GND LA20-P GND
GND NC GND LA16-N GND LA17-N GND LA18-N GND LA19-N GND LA20-N GND LA21-N GND	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	Signal           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	GND NC GND LA16-P GND CA17-P GND LA19-P GND LA20-P GND LA20-P GND
GND NC GND LA16-N GND LA17-N GND LA18-N GND LA19-N GND LA20-N GND LA20-N GND LA22-N	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D6-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND           D6+	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32	GND NC GND END EA17-P GND EA17-P GND EA19-P GND EA20-P GND EA21-P GND EA21-P GND
GND NCC GND LA16-N GND LA17-N GND LA19-N GND LA20-N GND LA20-N GND LA22-N GND GND LA22-N GND	1 3 5 7 9 9 11 13 15 17 19 21 23 25 27 29 31 33	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D4-           GND           D5-           GND           D6-           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND           D6+           GND	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34	GND NC GND LA16-P GND LA17-P GND LA19-P GND LA20-P GND LA20-P GND LA21-P GND
GND NC GND LA16-N GND LA17-N GND LA18-N GND LA19-N GND LA20-N GND LA21-N GND LA22-N GND	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D5-           GND           D5-           GND           D5-           GND           D7-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D6+           GND           D7+	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36	GND NC GND LA16-P GND LA17-P GND GND LA19-P GND LA20-P GND LA21-P GND LA22-P GND LA22-P GND
GND NCC GND LA16-N GND LA17-N GND LA18-N GND LA19-N GND LA20-N GND LA21-N GND LA22-N GND LA23-N GND GND	1 3 5 7 9 9 11 13 15 17 19 21 23 25 27 29 31 33	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D4-           GND           D5-           GND           D6-           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D5+           GND           D6+           GND	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34	GND NC GND LA16-P GND LA17-P GND LA19-P GND LA20-P GND LA20-P GND LA21-P GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA19-N GND LA20-N GND LA21-N GND LA21-N GND LA22-N GND LA22-N GND LA24-N GND	1 3 5 7 9 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D4-           GND           D4-           GND           D5-           GND           D6-           GND           D7-           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D6+           GND           D7+           GND	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 32 34 36 38	GND NC GND LA16-P GND LA17-P GND LA19-P GND LA20-P GND LA20-P GND LA21-P GND LA21-P GND LA22-P GND LA22-P GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA19-N GND LA20-N GND LA21-N GND LA21-N GND LA22-N GND LA22-N GND LA24-N GND	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D5-           GND           D5-           GND           D5-           GND           D6-           GND           D7-           GND           D8-           GND           D8-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D5+           GND           D6+           GND           D7+           GND           D6+           GND           D8+           GND           D9+	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 0 42 44	GND NC GND GND LA16-P GND GND LA19-P GND LA20-P GND LA21-P GND LA22-P GND LA22-P GND LA23-P GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA19-N GND LA20-N GND LA20-N GND LA22-N GND LA22-N GND LA24-N GND GND CA25-N GND	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D4-           GND           D5-           GND           D6-           GND           D6-           GND           D7-           GND           D8-           GND           D8-           GND           D8-           GND           D8-           GND           D9-           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D5+           GND           D5+           GND           D7+           GND           D8+           GND           D9+           GND	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 38 40 42 44	GND NC GND LA16-P GND LA17-P GND LA17-P GND LA19-P GND LA20-P GND LA21-P GND LA22-P GND LA22-P GND LA24-P GND LA24-P GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA19-N GND LA21-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND	1 3 5 7 9 11 13 15 17 21 23 25 27 29 31 33 35 37 39 41 43 45 47	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D4-           GND           D5-           GND           D6-           GND           D7-           GND           D7-           GND           D7-           GND           D7-           GND           D7-           GND           D8-           GND           D7-           GND           D8-           GND           D8-           GND           D8-           GND           D9-           GND           D10-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D6+           GND           D7+           GND           D8+           GND           D7+           GND           D9+           GND           D10+	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 33 34 36 38 34 40 42 44 6 48	GND           NC           GND           LA16-P           GND           LA17-P           GND           LA18-P           GND           LA19-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA22-P           GND           LA22-P           GND           LA24-P           GND           LA24-P           GND           GND           LA24-P           GND           GND           LA24-P           GND           LA24-P           GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA18-N GND LA18-N GND LA20-N GND LA20-N GND LA22-N GND LA22-N GND LA25-N GND LA25-N GND	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D6-           GND           D7-           GND           D7-           GND           D8-           GND           GND           GND           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D1+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D7+           GND           D8+           GND           D9+           GND           D19+           GND	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 30 32 34 36 38 34 36 38 40 42 44 46 50	GND NC GND LA16-P GND LA17-P GND CA19-P GND LA20-P GND LA20-P GND LA22-P GND LA22-P GND LA22-P GND LA24-P GND LA24-P GND LA25-P GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA18-N GND LA20-N GND LA20-N GND LA22-N GND LA22-N GND LA24-N GND LA24-N GND LA24-N GND LA24-N GND LA24-N GND	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D5-           GND           D5-           GND           D6-           GND           D7-           GND           D7-           GND           D6-           GND           D7-           GND           D7-           GND           D7-           GND           D7-           GND           D8-           GND           D9-           GND           D10-           GND           D11-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D4+           GND           D5+           GND           D6+           GND           D7+           GND           D6+           GND           D7+           GND           D7+           GND           D7+           GND           D7+           GND           D7+           GND           D8+           GND           D10+           GND           D11+	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 22 24 26 28 30 32 34 36 38 38 30 40 42 44 46 46 48 50 52	GND           NC           GND           LA16-P           GND           LA17-P           GND           LA18-P           GND           LA19-P           GND           LA20-P           GND           LA21-P           GND           LA21-P           GND           LA22-P           GND           LA22-P           GND           LA23-P           GND           LA24-P           GND           LA25-P           GND           LA25-P           GND           LA26-P           GND           LA26-P           GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA17-N GND LA18-N GND LA18-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND GND LA20-N GND GND LA20-N GND GND LA20-N GND GND GND GND GND GND GND GND GND GN	1 3 5 7 9 11 13 15 17 19 21 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 53	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D6-           GND           D7-           GND           D7-           GND           D8-           GND           GND           GND           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D1+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D7+           GND           D8+           GND           D9+           GND           D19+           GND	2 4 6 8 10 12 14 16 18 20 22 24 22 24 22 24 22 24 30 32 34 33 34 33 34 34 34 34 35 34 55 54	GND           NC           GND           LA16-P           GND           GND           GND           GND           GND           LA12-P           GND           LA12-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           GND           GND           LA23-P           GND           LA25-P           GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA17-N GND LA18-N GND LA18-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND LA20-N GND GND LA20-N GND GND LA20-N GND GND LA20-N GND GND GND GND GND GND GND GND GND GN	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D6-           GND           D5-           GND           D6-           GND           D6-           GND           D7-           GND           D9-           GND           D10-           GND           D11-           GND           D11-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D4+           GND           D5+           GND           D6+           GND           D7+           GND           D9+           GND           D10+           GND           D10+           GND	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 22 24 26 28 30 32 34 36 38 38 30 40 42 44 46 46 48 50 52	GND NC GND LA16-P GND LA17-P GND LA17-P GND LA19-P GND LA20-P GND LA20-P GND LA21-P GND LA22-P GND LA25-P GND LA25-P GND LA25-P GND LA26-P GND
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GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA19-N GND LA20-N GND LA20-N GND LA22-N GND LA22-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND	1 3 5 7 9 11 13 15 17 19 21 17 19 21 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 45 45 45 57 57 57 57 57 57 57 57 57 5	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D4-           GND           D5-           GND           D7-           GND           D8-           GND           D9-           GND           D10-           GND           D11-           GND           D11-           GND           D11-           GND           D12-           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D5+           GND           D7+           GND           D8+           GND           D9+           D10+           GND           D11+           GND           D10+           GND           D1+           GND	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 30 32 34 36 38 40 42 44 46 48 50 52 55 58	GND           NC           GND           LA16-P           GND           LA17-P           GND           LA18-P           GND           LA19-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA22-P           GND           LA22-P           GND           LA24-P           GND           LA25-P           GND           LA26-P           GND           LA26-P           GND           LA28-P           GND           LA28-P           GND           LA28-P           GND           LA28-P           GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA18-N GND LA20-N GND C C GND C C C C C C C C C C C C C C C C C C C	1 3 5 7 9 9 11 13 15 17 19 21 23 25 27 29 21 23 33 35 37 39 34 41 43 44 47 49 51 57 57 57 57 57 57 57 57 57 57	Signal           GND           COND           D0-           D1-           D2-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D7-           GND           D5-           GND           D7-           GND           D7-           GND           D7-           GND           D7-           GND           D10-           GND           D10-           GND           D11-           GND           D13-           GN4-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           D3+           D4+           GND           D4+           GND           D4+           GND           D5+           GND           D5+           GND           D5+           GND           D5+           GND           D5+           GND           D5+           GND           D10+           D10+           D10+           D10+           D12+           GND           D13+           GND           D14+	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 34 36 33 8 40 42 44 46 48 850 55 55 8 60	GND           NC           GND           LA16-P           GND           LA17-P           GND           LA19-P           GND           LA20-P           GND           LA20-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA23-P           GND           LA25-P           GND           GND           GND           LA30-P
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA19-N GND LA20-N GND LA20-N GND LA22-N GND LA22-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND CA30-N GND CA30-N GND CA30-N GND CA30-N GND CA30-N GND CA30-N CA30-N GND CA30-N CA30-	1 3 5 7 9 11 13 15 17 21 25 27 29 31 32 25 27 29 31 35 37 39 41 43 45 45 55 57 59 61 65 55	Signal           GND           COND           GND           GND           GND           GND           GND           D2-           GND           D3-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D7-           GND           D7-           GND           D7-           GND           D7-           GND           D10-           GND           D11-           GND           D13-           GND           D13-           GND           D14-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D6+           GND           D7+           GND           D8+           GND           D10+           D10+           D10+           GND           D11+           GND           D12+           GND           D12+           GND           D13+           GND           D14+           GND           D14+           GND           D14+           GND           D14+           GND	2 4 6 8 8 10 12 14 16 18 20 22 24 26 28 30 22 24 28 30 33 34 36 38 34 40 42 24 44 45 50 55 4 55 6 55 6 58 8 8 0 0 12 12 14 16 16 17 12 18 18 18 18 18 18 18 18 18 18 18 18 18	GND           NC           GND           LA16-P           GND           LA17-P           GND           LA19-P           GND           LA20-P           GND           LA20-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA24-P           GND           LA24-P           GND           LA25-P           GND           LA26-P           GND           LA28-P           GND           LA28-P           GND           LA29-P           GND           LA30-P           GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA17-N GND LA18-N GND LA19-N GND LA20-N GND C	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 27 39 41 43 45 57 57 57 57 57 57 57 57 57 5	Signal           GND           COND           DO           GND           DO           DO           DO           DO           GND           DO           GND           DO           GND           DO           DO           DO           GND           DO           SO           GND           DO	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D4+           GND           D5+           GND           D7+           GND           D7+           GND           D7+           GND           D8+           GND           D10+           GND           D10+           GND           D11+           GND           D12+           GND           D13+           GND           D14+           GND           D15+	2 4 6 8 8 10 12 14 16 18 20 22 24 26 28 30 22 24 26 28 30 32 34 34 44 46 50 52 55 55 58 60 62 64 66 8	GND           NC           GND           LA16-P           GND           LA12-P           GND           LA19-P           GND           LA19-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA22-P           GND           LA22-P           GND           LA22-P           GND           LA22-P           GND           LA25-P           GND           LA31-P
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA20-N GND GND LA20-N GND GND GND GND GND GND GND GND GND GN	1 3 5 7 9 11 13 15 17 21 25 27 29 31 32 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 66 9	Signal           GND           OK           GND           D0-           GND           D1-           D2-           GND           D2-           GND           D3-           GND           D3-           GND           D3-           GND           D5-           GND           D5-           GND           D5-           GND           D5-           GND           D6-           GND           D7-           GND           D8-           GND           D10-           D10-           D13-           GND           D14-           GND           D14-           GND           D15-           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D6+           GND           D7+           GND           D7+           GND           D7+           GND           D1+           GND           D1+           GND           D11+           GND           D12+           GND           D12+           GND           D13+           GND           D14+           GND           D14+           GND           D14+           GND           D14+           GND	2 4 6 8 8 10 12 14 16 18 20 22 24 26 28 30 32 24 34 36 33 34 36 33 40 42 44 46 45 55 55 55 55 55 56 55 66 66 66 66 66 66	GND           NC           GND           LA16-P           GND           LA17-P           GND           LA19-P           GND           LA20-P           GND           LA20-P           GND           LA20-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA23-P           GND           LA24-P           GND           LA25-P           GND           LA25-P           GND           LA26-P           GND           LA25-P           GND           LA26-P           GND           LA26-P           GND           LA28-P           GND           LA28-P           GND           LA30-P           GND           LA31-P           GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA19-N GND LA20-N GND LA20-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA23-N GND LA33-N GND C LA33-N GND C LA33-N GND C LA33-N GND C LA33-N C GND C LA33-N C C C C C C C C C C C C C C C C C C C	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 29 41 43 45 57 57 57 59 61 63 65 67 69 71	Signal GND NC GND D0- GND D1- GND D2- GND D3- GND D3- GND D4- GND D4- GND D5- GND D4- GND D5- GND D5- GND D5- GND D5- GND D5- GND D4- GND D5- GND D4- GND D4- C C C C C C C C C C C C C C C C C C C	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D1+           GND           D5+           GND           D15+           GNC	2 4 6 8 10 12 14 16 16 18 20 22 24 26 28 30 32 24 26 30 32 24 45 65 55 55 55 55 55 55 55 56 62 66 66 66 68 70 72	GND           NC           GND           GND           LA16-P           GND           LA17-P           GND           LA19-P           GND           LA19-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           GND           GND           GND           GND           LA25-P           GND           LA26-P           GND           LA26-P           GND           LA26-P           GND           LA26-P           GND           LA26-P           GND           LA26-P           GND           LA30-P           GND           LA30-P           GND
GND     NC     Constant     GND     LA16-N     GND     LA17-N     GND     LA17-N     GND     LA17-N     GND     LA18-N     GND     LA18-N     GND     LA20-N     GND     LA30-N     GND     LA31-N     GND     NC     GND     S     GND     S     S     GND	1 3 5 7 9 9 11 13 15 17 17 21 23 25 27 29 21 23 33 35 37 39 41 43 45 53 55 57 59 61 63 65 77 69 73 73	Signal           GND           NC           GND           D0-           GND           D0-           D0-           D0-           D0-           D0-           D1-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D8-           GND           D10-           D10-           GND           D13-           GND           D14-           GND           D13-           GND           D14-           GND           NC           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           D3+           D4+           GND           D4+           GND           D4+           GND           D4+           GND           D5+           GND           D5+           GND           D8+           GND           D10+           D12+           GND           D13+           GND           D15+           GND           NC           GND	2 4 6 8 8 10 12 14 16 16 18 20 22 24 26 28 30 32 24 36 38 34 40 42 25 44 46 50 55 55 55 56 60 66 66 66 8 87 70 72	GND           NC           GND           LA16-P           GND           GND           GND           GND           LA17-P           GND           LA17-P           GND           LA19-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA25-P           GND           LA30-P           GND           LA30-P           CNC      GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA19-N GND LA20-N GND LA20-N GND LA22-N GND LA22-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND CA30-N GND CA30-N C GND CA30-N C GND CA30-N C GND C C C C C C C C C C C C C C C C C C C	1 3 5 7 9 11 13 15 17 21 23 25 27 29 31 32 25 27 29 31 33 35 37 39 41 43 45 45 55 57 59 61 63 65 65 67 71 71 73 75 75 75 75 75 75 75 75 75 75	Signal           GND           NC           GND           GND           GND           GND           D3-           GND           D3-           GND           D3-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D4-           GND           D4-           GND           D4-           GND           D10-           GND           D11-           GND           D13-           GND           D14-           GND           D15-           GND           D14-           GND           D15-           GND           D15-           GND           D15-           GND           SON           NC	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D5+           GND           D7+           GND           D4+           GND           D5+           GND           D10+           GND           D11+           GND           D12+           GND           D14+           GND           D14+           GND           D15+           GND           D15+           GND           NC           GND	2 4 6 8 8 10 12 14 16 12 22 24 26 28 30 32 32 34 36 33 33 34 40 42 44 46 48 50 55 25 4 56 66 66 66 66 66 66 66 66 67 0 72 74 46	GND           NC           GND           LA16-P           GND           LA17-P           GND           LA19-P           GND           LA19-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA23-P           GND           LA24-P           GND           LA25-P           GND           LA28-P           GND           LA30-P           GND           CND           GND           NC
GND     NC     Constant     GND     LA16-N     GND     LA17-N     GND     LA17-N     GND     LA17-N     GND     LA18-N     GND     LA18-N     GND     LA20-N     GND     LA30-N     GND     LA31-N     GND     NC     GND     S     GND     S     S     GND	1 3 5 7 9 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 57 59 61 63 65 67 67 77 77 77	Signal GND NC GND D0- GND D1- D2- GND D3- GND D3- GND D3- GND D4- GND D5- GND D5- GND D5- GND D5- GND D5- GND D5- GND D1- D2- CND D1- D2- CND D1- D2- CND D1- D2- CND D1- D2- CND D1- D2- CND D1- D2- CND D1- D2- CND D1- D2- CND D1- D2- CND D1- D2- CND D1- CND D2- CND D2- CND D2- CND D2- CND D2- CND D2- CND D2- CND D2- CND D2- CND D2- CND D2- CND D2- CND D3- GND D3- GND D3- GND D4- CND CND CND CND CND CND CND CND CND CND	Signal           GND           NC           GND           D1+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D9+           GND           D10+           GND           D11+           GND           D12+           GND           D14+           GND           D15+           GND           D15+           GND           NC           GND	2 4 6 8 10 12 14 16 18 20 22 24 26 30 32 24 26 30 32 24 26 30 32 24 46 63 88 60 62 64 66 62 64 66 62 67 72 74	GND           NC           GND           LA16-P           GND           LA17-P           GND           LA19-P           GND           LA19-P           GND           LA20-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA24-P           GND           LA25-P           GND           LA30-P           NC           GND           LA31-P <tr tr="">     &lt;</tr>
GND NCC (A16-N (A17-N)(A17-N (A17-N)(	1           3           5           7           9           11           13           15           17           19           21           22           23           24           33           35           27           39           41           43           43           43           45           51           53           55           57           59           61           63           65           67           69           71           73           77           79	Signal           GND           NC           GND           GND           GND           GND           D3-           GND           D3-           GND           D3-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D4-           GND           D5-           GND           D4-           GND           D4-           GND           D4-           GND           D10-           GND           D11-           GND           D13-           GND           D14-           GND           D15-           GND           D14-           GND           D15-           GND           D15-           GND           NC           GND	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D5+           GND           D7+           GND           D4+           GND           D5+           GND           D10+           GND           D11+           GND           D12+           GND           D14+           GND           D14+           GND           D15+           GND           D15+           GND           NC           GND	2 4 6 8 8 10 12 14 16 12 22 24 26 28 30 32 32 34 36 33 33 34 40 42 44 46 48 50 55 25 4 56 66 66 66 66 66 66 66 66 67 0 72 74 46	GND           NC           GND           LA16-P           GND           LA17-P           GND           LA12-P           GND           LA19-P           GND           LA20-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA22-P           GND           LA22-P           GND           LA25-P           GND           LA31-P           GND           NC           GND           NC           GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA17-N GND LA17-N GND LA20-N GND LA20-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA26-N GND CA17-N GND LA26-N GND CA17-N GND LA26-N GND CA17-N CA17-N CA	1 3 5 7 9 9 11 13 15 17 21 23 25 27 29 31 32 33 35 37 39 41 43 43 44 43 44 55 57 57 59 61 63 65 77 77 79 81	Signal           GND           NC           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D3-           GND           D3-           GND           D3-           GND           D3-           GND           D4-           GND           D5-           GND           D5-           GND           D10-           GND           D11-           GND           D13-           GND           D13-           GND           D13-           GND           D13-           GND           NC           GND           NC           GND           D16-CLK-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D2+           GND           D2+           GND           D2+           GND           D4+           GND           D4+           GND           D4+           GND           D5+           GND           D5+           GND           D7+           GND           D8+           GND           D10+           GND           D11+           GND           D12+           GND           D13+           GND           D15+           GND           NC           GND           NC           GND           D16-CLK+	2 4 6 8 8 10 12 14 16 16 18 20 22 24 26 28 30 32 24 36 33 34 36 38 34 40 42 44 46 48 50 55 54 46 66 55 54 66 66 70 72 77 77 78 80 82	GND           NC           GND           LA16-P           GND           LA17-P           GND           GND           LA19-P           GND           LA19-P           GND           LA20-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA24-P           GND           LA25-P           GND           LA30-P           GND           CA31-P           GND           CNC           GND           CNC           G
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA20-N GND LA20-N GND LA21-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA23-N GND LA23-N GND LA23-N GND LA24-N GND LA24-N GND LA25-N GND LA25-N GND LA25-N GND LA25-N GND LA26-N GND LA26-N GND LA27-N GND LA27-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND LA28-N GND CA17-N C GND CA17-N C GND C C GND C C GND C C GND C C GND C C GND C C GND C C GND C C C C C C C C C C C C C C C C C C C	1 3 5 7 9 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 51 55 57 59 61 63 65 67 67 77 79 83 83	Signal GND NC GND DD- GND D1- GND D3- GND D3- GND D3- GND D3- GND D3- GND D4- GND D5- GND D5- GND D5- GND D5- GND D5- GND D5- GND D1- D1- C GND D1- D1- C GND D1- C GND D1- D1- C GND D1- C C GND D1- C C GND D1- C C C GND D1- C C C GND D1- C C C GND D1- C C C C GND D1- C C C C C C C C C C C C C C C C C C C	Signal           GND           NC           GND           D1+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D7+           GND           D7+           GND           D7+           GND           D7+           GND           D7+           GND           D1+           GND           D10+           GND           D11+           GND           D12+           GND           D13+           GND           D14+           GND           D15+           GND           NC           NC           NC           GND           D16-CLK+           GND           D16-CLK+	2 4 6 8 10 12 14 16 18 20 22 24 26 30 32 24 26 30 32 24 26 30 32 24 46 55 55 55 55 55 55 55 56 55 56 55 56 57 70 72 74 80 28 4 80 20 20 20 20 20 20 20 20 20 20 20 20 20	GND           NC           GND           GND           LA12-P           GND           LA13-P           GND           LA12-P           GND           LA12-P           GND           LA22-P           GND           LA22-P           GND           LA21-P           GND           LA22-P           GND           LA24-P           GND           LA25-P           GND           LA26-P           GND           LA26-P           GND           LA26-P           GND           LA26-P           GND           LA26-P           GND           LA26-P           GND           LA30-P           GND           CNC           GND           NC           GND           NC           GND
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA17-N GND LA17-N GND LA20-N GND C C C GND C C GND C C C C GND C C C C C C C C C C C C C C C C C C C	1           3           5           7           9           11           13           15           17           19           21           225           27           29           31           33           35           37           39           41           43           43           443           45           55           57           59           61           63           65           67           69           77           79           81           85	Signal           GND           NC           GND           D0-           GND           D0-           GND           D1-           GND           D2-           GND           D3-           GND           D4-           D5-           GND           D10-           D11-           GND           D13-           GND           D14-           GND           NC           GND           D15-           GND           D16-           GND           D16-	Signal           GND           NC           GND           D0+           GND           D1+           GND           D2+           GND           D3+           GND           D2+           GND           D3+           GND           D4+           GND           D4+           GND           D4+           GND           D5+           GND           D1+           GND           D1+           GND           D1+           GND           D12+           GND           D12+           GND           D12+           GND           D12+           GND           D13+           GND           D15+           GND           NC           GND           NC           GND           D16-CLK+           GND           D16-CLK+	2 4 6 8 10 12 14 16 16 18 20 22 24 26 28 30 32 24 26 33 34 36 33 34 40 42 24 40 42 55 56 55 55 55 56 56 56 62 66 66 68 70 72 74 76 68 80 80 80 80 80 80 80 80 80 80 80 80 80	GND           NC           GND           LA16-P           GND           GND           GND           GND           LA12-P           GND           LA19-P           GND           LA20-P           GND           LA20-P           GND           LA21-P           GND           LA22-P           GND           LA25-P           GND           LA30-P           GND           LA31-P           (R25) LA17-P           (R25) LA17-P           GND           NC
GND NCC GND LA16-N GND LA17-N GND LA17-N GND LA17-N GND LA20-N GND LA20-N GND LA21-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA22-N GND LA23-N GND LA33-N GND CA17-N CA17-N CA17	1 3 5 7 9 111 13 15 17 21 25 27 29 31 32 35 37 37 39 41 43 45 47 49 45 53 55 57 59 61 63 65 65 67 77 77 79 81 83 85 87 77 87 87 87 87 87 87 87 87	Signal GND NC GND DD- GND D1- GND D3- GND D3- GND D3- GND D3- GND D3- GND D4- GND D5- GND D5- GND D5- GND D5- GND D5- GND D5- GND D1- D1- C GND D1- D1- C GND D1- C GND D1- D1- C GND D1- C C GND D1- C C GND D1- C C C GND D1- C C C GND D1- C C C GND D1- C C C C GND D1- C C C C C C C C C C C C C C C C C C C	Signal           GND           NC           GND           D1+           GND           D1+           GND           D2+           GND           D3+           GND           D3+           GND           D4+           GND           D4+           GND           D5+           GND           D7+           GND           D7+           GND           D7+           GND           D7+           GND           D7+           GND           D1+           GND           D10+           GND           D11+           GND           D12+           GND           D13+           GND           D14+           GND           D15+           GND           NC           NC           NC           GND           D16-CLK+           GND           D16-CLK+	2 4 6 8 10 12 14 16 18 20 22 24 26 30 32 24 26 30 32 24 26 30 32 24 46 55 55 55 55 55 55 55 56 55 56 55 56 57 70 72 74 80 28 4 80 20 20 20 20 20 20 20 20 20 20 20 20 20	GND           NC           GND           GND           LA12-P           GND           GND           GND           LA12-P           GND           LA12-P           GND           LA20-P           GND           LA22-P           GND           LA25-P           GND           LA25-P           GND           LA25-P           GND           LA25-P           GND           LA30-P           GND           LA30-P           GND           LA30-P           GND           NC           GND           (R26) (LA17-P           (R27) LA18-P           GND

Assigned	Pin	Signal	Signal	Pin	Assigned
GND	1	GND	GND	2	GND
NC	3	NC	NC	4	NC
GND	5	GND	GND	6	GND
HA00-N	7	D0-	D0+	8	HA00-
GND	9	GND	GND	10	GND
HA01-N	11	D1-	D1+	12	HA01-
GND	13	GND	GND	14	GND
HA02-N	15	D2-	D2+	16	HA02-
GND	17	GND	GND	18	GND
HA03-N	19	D3-	D3+	20	HA03-
GND	21	GND	GND	22	GND
HA04-N	23 25	D4-	D4+	24	HA04-
GND		GND	GND	26	GND
HA05-N	27	D5-	D5+	28	HA05-
GND	29	GND	GND	30	GND
HA06-N GND	31 33	D6- GND	D6+ GND	32 34	HA06- GND
GND HA07-N	33	GND D7-	GND D7+	34	GND HA07-
GND	35	GND	GND	30	GND
HA08-N	37	D8-	D8+	40	GND HA08-
GND	41	GND	GND	40	GND HA08
HA09-N	41	D9-	D9+	42	HA09-
GND	45	GND	GND	44	GND
HA10-N	47	D10-	D10+	48	HA10-
GND	49	GND	GND	50	GND
HA11-N	51	D11-	D11+	52	HA11-
GND	53	GND	GND	54	GND
HA12-N	55	D12-	D12+	56	HA12-
GND	57	GND	GND	58	GND
HA13-N	59	D13-	D13+	60	HA13-
GND	61	GND	GND	62	GND
HA14-N	63	D14-	D14+	64	HA14-
GND	65	GND	GND	66	GND
HA15-N	67	D15-	D15+	68	HA15-
GND	69	GND	GND	70	GND
NC	71	NC	NC	72	NC
GND	73	GND	GND	74	GND
NC	75	NC	NC	76	NC
GND	77	GND	GND	78	GND
XHA-CLKN - J47					XHA-CLKP - J48
HA00-N (R30)	79	D16-CLK-	D16-CLK+	80	(R32) HA00-P
HA01-N(R31)		<b> </b>			(R33)HA01-P
GND	81	GND	GND	82	GND
NC	83	NC	NC	84	NC
GND	85	GND	GND	86	GND
NC	87	NC	NC	88	NC
NC	89	NC	NC	90	NC
NC	91	NC	NC	92	NC
GND	93	GND	GND	94	GND
GND NC	95 97	GND NC	GND	96 98	GND
NC	97	NC	NC NC	98	NC NC
NC	33	NL	INC	100	Inc
			10		-
Assigned	Pin	Signal	Signal	Pin	Assigne d
GND	1	GND	GND	2	GND
NC	3	NC	NC	4	NC
GND	5	GND	GND	6	GND
HB00-N	7	D0-	D0+	8	HB00-
GND	9	GND	GND	10	GND
HB01-N	11	D1-	D1+	12	HB01-
	13	GND	GND	14	GND
GND	15	GND	GND	14	GND

3

			J	11		
Assigne	d	Pin	Signal	Signal	Pin	Assigned
	GND	1	GND	GND	2	GND
	NC	3	NC	NC	4	NC
	GND	5	GND	GND	6	GND
HA16-N		7	D0-	D0+	8	HA16
	GND	9	GND	GND	10	GND
HA17-N		11	D1-	D1+	12	HA17-
	GND	13	GND	GND	14	GND
HA18-N		15	D2-	D2+	16	HA18
	GND	17	GND	GND	18	GND
HA19-N		19	D3-	D3+	20	HA19
	GND	21	GND	GND	22	GND
HA20-N		23	D4-	D4+	24	HA20
	GND	25	GND	GND	26	GND
HA21-N		27	D5-	D5+	28	HA21
	GND	29	GND	GND	30	GND
HA22-N	T	31	D6-	D6+	32	H22
	GND	33	GND	GND	34	GND
HA23-N		35	D7-	D7+	36	HA23
	GND	37	GND	GND	38	GND
HB16-N		39	D8-	D8+	40	HB16
	GND	41	GND	GND	42	GND
HB17-N		43	D9-	D9+	44	HB17
	GND	45	GND	GND	46	GND
HB18-N		47	D10-	D10+	48	HB18
	GND	49	GND	GND	50	GND
HB19-N		51	D11-	D11+	52	HB19
	GND	53	GND	GND	54	GND
HB20-N		55	D12-	D12+	56	HB20
	GND	57	GND	GND	58	GND
HB21-N		59	D13-	D13+	60	HB21
	GND	61	GND	GND	62	GND
LA32-N		63	D14-	D14+	64	LA32
	GND	65	GND	GND	66	GND
LA33-N		67	D15-	D15+	68	LA33
	GND	69	GND	GND	70	GND
	NC	71	NC	NC	72	NC
	GND	73	GND	GND	74	GND
	NC	75	NC	NC	76	NC
	GND	77	GND	GND	78	GND
HA17-N ( R HB17-N ( R		79	D16-CLK-	D16-CLK+	80	(R46)HA17-P (R47)HB17-P
	GND	81	GND	GND	82	GND
	NC	83	NC	NC	84	NC
	GND	85	GND	GND	86	GND
	NC	87	NC	NC	88	NC
	NC	89	NC	NC	90	NC
	NC	91	NC	NC	92	NC
	GND	93	GND	GND	94	GND
	GND	95	GND	GND	96	GND
	NC	97	NC	NC	98	NC
	NC	99	NC	NC	100	NC

5

4

		6	7 8									
	<u>.</u>		Vita57.1 Power Supply rails									
Voltage supply	Voltage	Max. Current HPC (LPC)	Description									
VADJ	0- 3.3V	4A (2A)	Adjustable supply voltage from CC to the IO MC module.									
VIO-B-M2C	0 - VADJ	1.15 (NA)	Supplied voltage generated by MC powering the IO banks on the FPGA interfacing to the Bank B IO pins of the connector									
VREF-A-M2C	0 - VADJ	1mA*	Reference voltage used by the bank A data pins, LAxx, HAxx. No Connect if Bank A reference voltage is not required.									
VREF-B-M2C	0 - VIO-B-M2C	1mA (NA)*	Reference voltage used by the bank B data pins, HBxx. No Connect if Bank A reference voltage is not required.									
3P3VAUX	3.3V	20mA*	Auxiliary power supply from CC to the IO MC module.									
3P3	3.3V	3A	Power supply from CC to the IO MC module.									
12001/	12.0V	1A	Power supply from CC to the IO MC module.									
		A: Not available for LPC connector CC: Carrier Card (Host) MC: Mezzanine Card Due to supply rail's max. current limitation, the onboard LED indicator is populated but the current limiting resistor is NOT populated.										

N/ \* Di

J20										
Assigned	Pin	Pin	Assigned							
VIO-B-M2C	1	2	3P3							
VREF-A-M2C	3	4	VADJ							
VREF-B-M2C	5	6	3P3VAUX							
GND	7	8	12P0V							
	J	23								
Assigned	Pin	Pin	Assigned							
TDI	1	2	TDO							
3P3VAUX	3	4	ТСК							
I2C-SCL	5	6	TRST-L							
I2C-SDA	7	8	TMS							
	J	21								
Assigned	Pin	Pin	Assigned							
PG-C2M	1	2	PG-M2C*							
10 K Ω (R17)	pullup resi	stor to 3P3	supply rail							

Assigned Pin Pin Assig CLK-DIR\* 1 2 GND\*\* \* 10 K Ω Pullup resistor R15 to 3P3 supply rail \*\* 1M K  $\Omega\,$  Pulldown resistor R16 to GND

NOTES: + IPEX connector access to the probe connector. The SSxx ( 0402 SMD package ) enables MC Signal source. The SSxx Can be replaced by bead, ac coupling cap or filter.

++ Probe clock can be supplied from listed source, IPEX connector ( if Jxx is listed ) ( X - Rx ) and ( Y-Ry ) where X is the signal source followed by the enabled resistor, Rx. The Rx (  $0 \Omega 0402$  SMD package) must be installed in order to enable the signal as clock to the probe. Please see \*Clock routing technique\* section for more details.

		8	1		
Assigned	Pin	Signal	Signal	Pin	Assigned
GND	2	GND	GND	1	GND
NC	4	NC	NC	3	NC
GND	6	GND	GND	5	GND
LA16-P	8	D0+	D0-	7	-N
GND	10	GND	GND	9	GND
LA17-P	12	D1+	D1-	11	-N
GND	14	GND	GND	13	GND
LA18-P	16	D2+	D2-	15	-N
GND	18	GND	GND	17	GND
LA19-P	20	D3+	D3-	19	-N
GND	22	GND	GND	21	GND
LA20-P	24	D4+	D4-	23	-N
GND	26	GND	GND	25	GND
LA21-P	28	D5+	D5-	27	-N
GND	30	GND	GND	29	GND
LA22-P	32	D6+	D6-	31	-N
GND	34	GND	GND	33	GND
LA23-P	36	D7+	D7-	35	-N
GND	38	GND	GND	37	GND
LA24-P	40	D8+	D8-	39	-N
GND	42	GND	GND	41	GND
LA25-P	44	D9+	D9-	43	-N
GND	46	GND	GND	45	GND
LA26-P	48	D10+	D10-	47	-N
GND	50	GND	GND	49	GND
LA27-P	52	D11+	D11-	51	-N
GND	54	GND	GND	53	GND
LA28-P	56	D12+	D12-	55	-N
GND	58	GND	GND	57	GND
LA29-P	60	D13+	D13-	59	-N
GND	62	GND	GND	61	GND
LA30-P	64	D14+	D14-	63	-N
GND	66	GND	GND	65	GND
LA31-P	68	D15+	D15-	67	-N
GND	70	GND	GND	69	GND
NC	72	NC	NC	71	NC
GND	74	GND	GND	73	GND
NC	76	NC	NC	75	NC
GND	78	GND	GND	77	GND
(R26)LA17-P					L7-N (R24)
( R27 LA18-P	80	D16-CLK+	D16-CLK-	79	L8-N (R25)
GND	82	GND	GND	81	GND
NC	84	NC	NC	83	NC
GND	86	GND	GND	85	GND
NC	88	NC	NC	87	NC
NC	90	NC	NC	89	NC
NC	92	NC	NC	91	NC
GND	94	GND	GND	93	GND
GND	96	GND	GND	95	GND
NC	98	NC	NC	97	NC
NC	100	NC	NC	99	NC

2

	GND	1	GND	GND	2	GND
	NC	3	NC	NC	4	NC
	GND	5	GND	GND	6	GND
HB00-N		7	D0-	D0+	8	HB00-P
	GND	9	GND	GND	10	GND
HB01-N		11	D1-	D1+	12	HB01-P
	GND	13	GND	GND	14	GND
HB02-N		15	D2-	D2+	16	HB02-P
	GND	17	GND	GND	18	GND
HB03-N		19	D3-	D3+	20	HB03-P
	GND	21	GND	GND	22	GND
HB04-N		23	D4-	D4+	24	HB04-P
	GND	25	GND	GND	26	GND
HB05-N		27	D5-	D5+	28	HB05-P
	GND	29	GND	GND	30	GND
HB06-N		31	D6-	D6+	32	HB06-P
	GND	33	GND	GND	34	GND
HB07-N		35	D7-	D7+	36	HB07-F
	GND	37	GND	GND	38	GND
HB08-N		39	D8-	D8+	40	HB08-F
	GND	41	GND	GND	42	GND
HB09-N		43	D9-	D9+	44	HB09-P
	GND	45	GND	GND	46	GND
HB10-N	0.110	47	D10-	D10+	48	HB10-P
1010-11	GND	47	GND	GND	50	GND
HB11-N	GIVD	51	D11-	D11+	50	HB11-P
HDII-IN	GND	53	GND	GND	54	GND
HB12-N	GIVD	55	D12-	D12+	56	HB12-P
1012-14	GND	57	GND	GND	58	GND
HB13-N	GIVD	59	D13-	D13+	60	HB13-P
UD13-IN	GND	61	GND	GND	62	GND
HB14-N	GIND	63	D14-	D14+	64	HB14-P
ND14-IN	GND	65	GND	GND	66	GND
HB15-N	GIND	67	D15-	D15+	68	HB15-P
UD13-IN	GND	69	GND	GND	70	GND
	NC		NC	NC	70	NC
	-	71				
	GND	73	GND	GND	74	GND
	NC GND	75	NC	NC	76	NC GND
XHB-CLKN -	-	77	GND	GND	78	-
		70	DIE CLY	D16 CI#	80	XHB-CLKP - J50
HB00-N ( R		79	D16-CLK-	D16-CLK+	80	(R42) HB00-P
HB06-N ( R						(R43) HB06-P
	GND	81	GND	GND	82	GND
	NC	83	NC	NC	84	NC
	GND	85	GND	GND	86	GND
	NC	87	NC	NC	88	NC
	NC	89	NC	NC	90	NC
	NC	91	NC	NC	92	NC
	GND	93	GND	GND	94	GND
	GND	95	GND	GND	96	GND
	NC	97	NC	NC	98	NC
	NC	99	NC	NC	100	NC

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SPECIFIED DIMENSION	ASSEMBLY D	RAWING					
ARE INCHES (MM). ROHS COMPLIANT	ITEM: ZX182S	ITEM: ZX182S					
DESCRIPTION: FMC VITA 57.1 test board for E5379A Agilent probe – passive mezzanine HPC LPC Meg-Array							
	DRAWN:	REVISSION: 1.0					
M. MARINA	SLAVIK	SHEET 3 OF 3					
7		<b>8</b> J2					

# ZX182S Top



Е

D

С

В



ZX182S Bottom

Note

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